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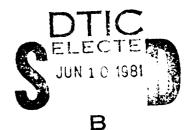
A LOS ANGELES BASIN 1100 AIRCRAFT TRAFFIC MODEL

Dr. Anand D. Mundra

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McLean, Virginia 22102



January 1981



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16. Abstract

This document describes a static model of air traffic in the Los Angeles basin in the 1995 time frame. The model is a "snapshot" of a "peak" instant in 1995, i.e., an instant when the greatest number of aircraft are predicted to be seen at any time in 1995 in the Los Angeles basin. Derived from an earlier model, it contains 1105 instantaneously airborne aircraft. Position, velocity, and other relevant descriptors of each aircraft are provided. The model reflects realistic constraints such as topography, expected airspace restrictions, and aircraft performance characteristics. The total number of aircraft predicted in the model is obtained on the basis of historical data and air traffic projections by the Federal Aviation Administration for the Los Angeles basin.

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1. INTRODUCTION

This document describes an air traffic model of the Los Angles basin projected into the 1995 time frame. The Los Angeles basin is known to be the area of the densest air traffic in the United States at this time. It is expected to continue to be the densest area of air traffic activity in the 1990s. This model is a "snapshot" of air traffic in the Los Angeles basin, and represents air traffic at a "peak" instant in 1995, i.e., an instant which contains the greatest number of aircraft expected to be airborne in that area at any time during 1995. It contains complete position and velocity information on each aircraft in the basin at this peak instant. The model contains 1105 aircraft and is referred to as the LAX-1100 model.

LAX-1100 is derived from an earlier air traffic model of the Los Angeles basin for the same year, described in Reference 1. LAX-1100 revises that model by using current air traffic forecasts, but maintains all the realism inherent in that model such as topographical and airspace constraints, and aircraft performance.

This document briefly describes the methodology for deriving LAX-1100 and its data formats. It also lists each aircraft in the model.

The model is stored on tape number 1218 at the MITRE/Washington Computing Center at 1820 Dolley Madison Boulevard, McLean, Virginia 22102.

2. THE LAX-1100 MODEL

LAX-1100 is derived from an existing and previously widely used traffic model of the 1995 Los Angeles hub described in Reference 1, here referred to as LAX-1840. LAX-1840 makes extensive use of real life information about the Los Angeles basin, such as airport locations, terrain, likely airspace and route restrictions, traffic flows and patterns, aircraft altitude and speed profiles appropriate to their performance categories and flight types. The model was hand made; all this renders the model highly realistic. However, the traffic levels used for building the model were based on the forecasts available in 1972. Air traffic statistics have since experienced a significantly slower rate of growth as a result of the energy crisis. The LAX-1100 model incorporates the latest FAA forecasts. It is based on the LAX-1840 model and maintains all the realism otherwise inherent in that model. Section 2.1 briefly summarizes the relevant methodology of the original LAX-1840 model. Section 2.2 summarizes the new forecasts used for revising LAX-1840. Section 2.3 describes the method used for obtaining LAX-1100.

2.1 Review of LAX-1840 Methodology

Reference I uses the growth in the total annual operations in the Los Angeles hub to estimate the growth in the peak instantaneous airborne count (IAC) in the basin. Let N71 and N95 be the peak IACs for the Los Angeles hub in 1971 and 1995, respectively. Let A71 and A95 be the total annual operations in the Los Angeles hub for 1971 and 1995, respectively. Then, Reference I assumes that

$$\frac{N95}{N71} \approx \frac{A95}{A71}$$

Reference 2 provides a peak IAC of 495 for the base year (actually 1972). Reference 3 shows that this IAC is based on about 82% of the air traffic activity in the basin. Thus, the total basin IAC, N71, was estimated by Reference 1 to be 600. The 1971 annual operations count A71 = 6,357,000 operations was available from FAA sources. The 1995 operations count, A95, was obtained by the following method:

 $A95 = (1+R)^{24} * A71$, where R is given by $(1+R)^{10} = A83/A73$

A83 and A73 were obtained from FAA Terminal Area forecasts (see Reference 1 for details). This gives A95 = 19,477,00. Therefore N95 = (19477/6357) \pm 600 = 1840. This total IAC count of 1840 was then subdivided into various subgroups in proportion to component operation numbers.

Le More Carenner

Reference of north-shed in 1900, or vides the FAA forecast of air traffic on the low Angeles who the common to 1900. Other terms to we problem the low with a second to the airline terms. The expected to affect air arrived fleet projections soughtly. Table 2-1 lists the top of the projections soughtly. Table 2-1 lists the top of the projections: air carriers, general avia ion itinerant, and whereal aviation local. This is the finest subdivision of morations available in Reference 4. For this study, the operations available in Reference 4. For this study, the operations within each category were projected morber five tears, to the year 1995, assuming a constant yearly percent growth between 1985 and 1995. These resulting new forecasts for 1990 are also listed in Table 2-1.

Table 7-2 compares these new forecasts to the original 1995 forecasts used in deriving LAX-1840. Military operation are assumed to remain constant at the levels of Reference I. Table 2-2 shows the ratio of the new forecasts to the old forecasts for each flight category. The new forecast vields a total admiral operations count which is about 60% of the old forecast. Thus, maintaining the methodology used in Reference 1, the total number of aircraft in the 1995 Los Angeles basin peak snapshot would be expected to be about 60% of the number in LAX-1840.

2.3 Derivation of LAX-1100

Since Reference 1 assumes a proportionality of the growth in annual operations to peak IAC at all levels, the new forecasts should be reflected in smaller total IACs for the basin in each of the three flight categories of Table 2-2 in the proportions listed there. A random number generator is used to delete air raft from the LAX-1840 model, as shown in Figure 2-1. The formit set of aircraft in the output file LAX-NEW is thus a proper subset of the aircraft in LAX-1840. Each aircraft that is retained in LAX-NEW has all its original coordinate values.

Three different runs were made, with three different starting rundom number seeds providing three different LAX-NEW models. The three versions had 1074, 1096 and 1105 aircraft respectively. The 1105 aircraft model was chosen as the revised Los Angeles basin model and was named LAX-1100.

TABLE 2-1 1973 AVIATION FORECASTS FOR THE L.A. HUB

lype of	Forecast		General Aviation	Aviation
Projection	For Year	nir Carriers]tineran(Loca!
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Sepametric Projection	1001	102.	5335	un un un un un un un un un un un un un u

TABLE 2-2

COMPARISON OF FORECASTS

(Annual Operations in Thousands)

	Air Orriers	General Astacton Itinstant Local	tarion Local	MULLECY	1.310.
New 1995 Forecast (Erran Table 2-1)			v.	٥٢.	
Old 1995 Forecast (from Tables 3-2 and 3-4 of Reference 1)	134;	88.82 2.88.22	10 10 20		7
Scaling Factor	0.911	0.607	0.507		

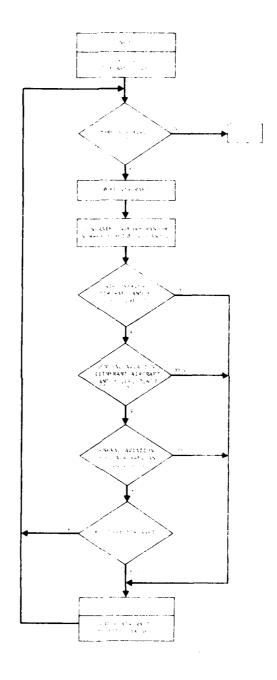


FIGURE 2-1 GENERATION OF LAX-1100

3. DATA FORMATS

The LAX-1100 model consists of 1105 aircraft. The model exists as a series of 1105 card images, each card image consisting of data on one aircraft, and is stored on a 9-track tape.

Section 3.1 describes the format information for reading the tape, and section 3.2 describes the formats for interpreting each card image.

3.1 Tape Format

Tape number 1218 is a 9-track tape and contains the LAX-1100 model. It has been created on an IBM/370 (Model 148) computer running VM/370. The data density is 800 bits per inch. The data set consists of 1105 logical records as shown in Figure 3-1 (see Reference 5 for IBM/370 nomenclature). Each logical record corresponds to a physical record 80 bytes long. Each byte represents an EBCDIC coded alphanumeric character. Each logical record is thus an 80 column card image. A tape mark indicates the end of the data set on the tape.

3.2 Formats For Each Card Image

This section describes the data formats for each card image. Each card image contains complete data on one aircraft. These formats are identical with those necessary to interpret the LAX-1840 model of Reference 1. Reference 1 also contains a description of these formats; however, Reference 1, as published in March 1974, contained an error affecting the interpretation of columns 41 through 53. This error was later corrected by a correction sheet dated September 11, 1974. The formats described in this section incorporate these corrections. The following formats are thus the correct formats:

Item No.	Card Columns	
1	1-4	Aircraft sequence number
2	6-13	Aircraft description code
3	15-17	Departure airport code
4	19-21	Arrival airport code
5	23-39	Aircraft position (x,y,z)
6	41-59	Aircraft velocity (x,y,z)
7	61-64	Aircraft heading
8	66-69	Aircraft ground speed
9	71-74	Aircraft turn rate
10	76	Flight plan code
11	78	Flight phase code

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Each record is 30 hyter long. Record formation of the Lengih

FIGURE 1 LAX-1100 TAPE FORMAT The interpretation of the data codes and the arithmetic precision and units of measure are included in the following detailed description of each data item:

Aircraft sequence number

Cols: 1-4 nnnn
Data: a four digit integer ranging from 1 to 1105

Aircraft description code

Cols: 6-13 al a2 a3 a4 nnnn

Data: Descriptor Category a₁ a₂ a₃ a₄

Sequence number nnnn within a category

where

Air carrier		$a_1 a_2 = AC$
a ₃ =	T L M S U	SST Long haul Medium haul Short haul Ultra-short haul
a ₄ =	H L	Heavy aircraft Light aircraft
General Aviati	on or	Military
a ₁ =	V I	for VFR for IFR
a ₂ =	Ĺ	for itinerant for local for over
a ₃ =	G M	for general aviation for military
a ₄ =	A B C D E F	Single engine 1-3 places Single engine 4 or more places Multi-engine under 12,500 pounds Multi-engine over 12,500 pounds Turboprop Turbojet

3. Departure airport code

Cols: 15-17 aab Data: One of 48 airport codes (see Table 3-1) or one of eight hub boundary octals (see Figure 3-2) for flights departing from airports outside of the hub.

4. Arrival airport code

Cols: 19-21 aaa
Daca: Same as (3). (Hub codes for flights destined for airports outside the hub.)

5. Aircraft positions (x, y, z)

Cols: 23-28, 30-35, 37-39 + xxx.x, + xxx.x xxx

Data: x coordinate in nautical miles y coordinate in nautical miles z coordinate in hundreds of feet

The coordinate system is centered at the LAX VORTAC. The VORTAC is at 33° 55' 59" North Latitude and 118° 25' 52" West Longitude. The x-axis points (true) east and the y-axis points (true) north. Altitudes are referenced to mean sea level.

6. Aircraft velocities (y, x, z)

Cols: 41-46, 48-53, 55-59 + xxx.x + xxx.x + xxxx

Data: y is velocity in knots

x is velocity in knots

z is climb or descent rate in feet per minute

7. Aircraft heading

Cols: 61-64 xxxx

Data: Aircraft heading from 0 to 359 degrees (0 = true north, angles increasing clockwise)

8. Aircraft ground speed

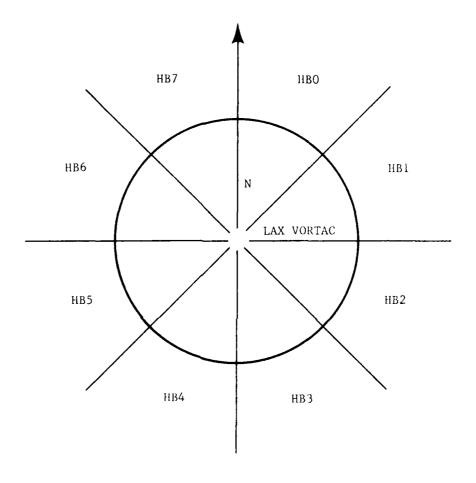
Cols: 66-69 xxxx

Data: Ground speed in knots

TABLE 3-1

AIRPORT CODE LIST

	Airport Name	Rialto	Apple Valley	Norton AFB	Corona	Redlands	MCAS El Toro	Hemet Ryan	San Fernando	Fla Bob (Riverside)	Whiteman (L.A.)	Agua Dulce	Skylark	Santa Paula	Quartz Hill	Rosamond	Capistrano	Tri City	Morrow	Hawkins	Perris Valley	Rancho (alifornia	Hesperia Airlodge	Sun Hill Ranch	Sterks Ranch
Airport	Code	L36	APV	SBD	T66	L12	NZJ	X17	SFR	RIR	WHP	X01	X42	SZP	X32	X37	L38	SBT	X25	X15	X31	X33	X18	77X	X43
		25.	26.	27.	28.	29.	30.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.	41.	42.	43.	44.	45.	.95	47.	48.
	Airport Name	Long Beach	Van Nuys	Santa Ana	Los Angeles International	Torrance	Santa Monica	Hawthorne	Burbank	La Verne Brackett	Chino	El Monte	Fullerton	Compton	George AFB	Edwards AFB	Oxnard	Ontario	Riverside	Meadowlark	Fox	Palmdale	Santa Susana	Cable	March AFB
Airport	opoo	LGB	VNY	SNA	LAX	TOA	SMO	HHR	BUR	POC	CNO	EMT	FUL	CPM	X14	EDW	OXR	ONT	RAL	L16	WJF	2MD	L02	CCB	RIV
		1.	2.	3.	4.	5.	. 9	7.		9.	0.	-:	2.	3.	,	5.	.9	.7.	.80	9.	.0.	•	.2.	3.	.4.



NOTE: The Hub Is Divided Into Eight Equiangular Octals For Arrivals And Departures Across 1ts Boundaries.

FIGURE 3-2 HUB OCTAL CODES

9. Aircraft turn rate

Cols: 71-74 + x.×

Data: Turn rate in degrees per second

+ = clockwise

- = counter clockwise

10. Flight plan code

Col: 76 n

Data: n = 1 flight plan filed n = 0 no flight plan

ll. Flight phase code

Col: 78 n

Data: n = 0 Cruise phase n = 1 Climb phase

n = 2 Descent phase

A complete listing of this data set is provided in Chapter 4.

4. THE SNAPSHOT

Table 4-1 lists the LAX-1100 model.

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	CEMCOUT			-21.)	34.3	222	273.7	-51.4	2350	340	214).;	1 1	
4 3	L(LH0)04	H4 7	LAK	-15.1	50.2	210	-250.2	144.5	-145)	150	239).)	1.2	
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15 4	HUCHEN	нн 1	Γ4 x	15.5	42.4	1.45	-64.4	-241,5	2100	255	24).)		
17 4	C480 10 Z	+8 l	LAx	50.3	9.1	135	-24.4		-1500	264	234	1.)	1 .	
14 4	CMHO JOH	44.1	LΔX	64.4	14.4	1.15		-219.6		238	254).J		
1 · A	4 CLEHPD)	ero I	1 V K	64.1	36.2	21)		-125.2	-1375	5.78	253).)		
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	C2F9001			4.4	3.7	43	-64.5	194.7	- 40.3	108	5.04).)		
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	CSLODUB			10.9	-6.2	43	147.1	-175.4		310	223		1 2	
	CSLOUNA			37.9	3.7	96		-221.1		204	229	0.0	1 3	
	CSLOUDS			-10.0	47.2		-224.3		-1300	150	259	J. J	1 2	
	5 SL0006			-44.2	42.7		~144.9		-1250	124	259		1 2	
	CSLOJOT			-13-1	5.8	70	252.2	-52.8		346	260		1 1	
	CSLOOOM			-4-4	8.6	54	114.5	198.3	1.400	60	229		1 1	
_	CSESSOS	_		5.4	13.4	50	220.0	#3.3	2000	23	239	0.0	1 1	
	CSL 1710			32.7	7.3		119.5	536.9	2000	50	239	-2.5	1 1	
	CSLOOLL			19.6	-10.6		-1H.7	268.3	2250	34	269	0.)	1 1	
	COLUGAL			5.5	-8.6	74	-3.9	228.9	1900	91	254	3.3	1 1	
	C1(0)02			н. 2	-9.9	47	-4.0	233.9	1950	91	234	3.3	1 1	
	CULUDDE	-		J.)	-5.5		~[40.7	157.7	1500	130	219	3.7	1 1	
	CULU334			29.6	-13.3	175	-17.3	248.3	2050	94	249	0.0	l 1	
	CUL0005			19.3	- 4.9	12)	-8.3	234.8	5000	47	239	0.0	1 1	
	CUL0 106			-1.0	-0.6	11	-102.2		1300	230	159	0.0	1 1	
50 A	CUL0007	LAX	UNI	3.4	5.5	57	29.2	2)1.9	Ω	8.2	210	0.3	1 1	

TABLE 4-1 (Continued)

ALPCPART SEON DEJURIET			POSITIO MI FT-7			FT/MM		(6.45	TURN U.S. KATE J. J. DG/SC 1 2
- NO CCOE - 1234567±301234	DEP ARR 5578 JOLE			-					
51 ACULCOOP		34.3	-3.1	3) 60.7	218.9	-1150	/3	224	0 0 1 2
52 ACULUUU9		47.2			~273.9		269	209	2.0.0
53 ALULD 110		54.1			-216.1		290	243	0.0 1 2
54 ACULDILL		12.7	33.0 19	0 201.5	45.5	1100	23	219	0.011
55 ACMH0624	NT 981	48.2	23.4 1	183.4	196.7	2250	41	269	1.1 (.)
36 ACMH3125	HP5 UNT	50.3	D. 3 5	6 72.8	234.0	-1400	73	249	3.3 1 2
ST ACSLUDIZ	492 LNT	52.)	-22.7 13	30 210.4	-76.6	-1100	340	224	0.0 1 2
54 ACSEDOL3	445 UNT	17.5	-6.5 L	5 64.0	233.4	-1100	73	219	J.J 1 2
59 ACSLDO14	497 HVI	37.2		10 -144.8		-1300	124	254	0.012
47 ACSLUOIS	HB1 UNI	71.3		50 -183.4			227	269	0.012
41 ACSL 1316		32.)	23.8 14		81.7	2000	2.3	533	0.011
52 ACSLUUIT		3.7			-166.4	2700	320	259	0.011
53 ACJLJ012		24.4		1 -210.4	- 76.6)	2))	224	3.0 1
MA ACULITAL	AT SAA	37.6		7 -167.7		1300	220	219	3-111
55 ACULD014		31.7		168.3		1350	210	223	3.3 1 1
	TAJ TE	13.1			-212.8	-630	264	214	0.3 1 2
A7 4000017	A1 F7A	23.4		2 -205.1		-1130	200	514	2.) 1 2
5º ACMH))24		24.4			-221.1		255	229	J.) 1 2
	151 241	65.2	54.1 19		-259.4		255 90	274	0.017
70 45 MH 2023		- 39.6	7.9 21			-1400	_	279	0.) 1 2
71 ACMH2)24		34.1	30.3 29		215.6	210) 2300	50 70	249 269	0.012
72 ACMH9030		37.4	44.H 22		252.7 -77.1	2500	345	294	0.5 1 1
-	РМО НВ <i>1</i> НВ1 РМО	-25.5 41.7		15 24 7. 8 15 -61.8	-23J.d		255	239)•)
	1151 PM 1	3.4	55.1 11			-1400	95	274	0.012
75 ACSEDDE9 76 ACSEDD20		57.4	-24.4 2		-134.5	-400	430	269	0.) 1 2
	PM) HB1	14.4			-176.3	1725	250	209	0.111
	74) HH1	12.7			-225.5	1400	260	229	-2.) 1 1
79 ACSL 0024		41.7	41.1 22		225.6	2100	65	249).) 1 1
	יין ייין	24.2	-	15 -224.1	142.5	2203	149	269	3.311
	34) AX	1.2)) -25 1.1	-61.2	2200	195	260	0.01
	HH6 5NA	33.4		J -198.3		- 600	210	229	J.J 1 2
	H-1 - MA	65.4		75 - Lu9.4			227	249	3.3 1 2
84 ACMHUU34	1VA 8812	25.5		-172.3	- 19.4	1500	210	199).) 1 1
95 ACMH3035	3 A H 12	25.1	-3.7 14		64.4	2100	15	24)	0.1 J
1500 JE 34 48	44.2 SNA	29.1		7 -137.6			210	211	J.) I ?
_	171 ,41	30.5		· -198.3		-600	210	227	0.312
HA ACAL 1027		61. +	31.0 14		- 243.3		253	2 4	J. 1 1 2
	WA SA	27.5	14 + 11		221.5		112	234	0.012
	544 ee 5	37.4	-17.9 11		244.8	2150	71	253	0.3 1 1
41 ACSL 1932	JAA HE J	43.		5 [43.7	103.0		40	249	1.612
	594 HRI	63.3	42.4 30	173.5	236.8	U	50	270	0.010
73 ACSL 1734	SHA HHS	31 . '	- 15.2 11	1.855- (142.5	2200	148	269	0.) 1 1
	SVA LAK	11.5		t) → 15. j	- +1 = 6	:)	350	240	0.010
95 ACULUM21	SVA LAK	14.4	- 2 - 4	15 [80.9]	-114.5	-525	330	234	J.) 1 2
75 ACUL 7727	XA LAX	5.1	1.3 1	2 -71.4	-145.3	-1050	250	204	2.5 1 2
37 ACJC1323	SVA LAX	17.2	-4.2	D 82.0	-225.5	J	290	240	J.J 1 J
94 ACUL 1024	SNA BUY	17. +	-1.3 "	(J 225.5	- 5 + . 7	-1150	350	224	0.012
97 AC JEU JZ6		43.1			-195.9	-600	269	144	0.012
130 ALJU27	442 SNA	45.5	- 21 4.7	114.9	-277.8	J	300	2+0	0.000

FABLE == 1 (Continued)

41/0-4FT 5635-36564PT 51#PUFT 532 UUT 162/4FE 123-5674 (312345678901)	1F /	1 2 3 5 1 1 3 4 1 1 1 4 - 4 0 1 2 3 4 5 6	- 1) -1-	KNGTS -Y-	қып5 - x -	FT/MN -Z-	DEUS	KTS DGZSC	D 3
101 ACGL0027 554 HR1	62.4	36.2	11)	154.2	143.4)	50	24)).)))
112 40MH2337 H37 HUR 113 40MH0336 HE3 30R	- 32 • 7 32 •)	4 1. 7 = 3,2)		-224.4 -172.9		-1375	145 230	214 0.3	1 2
1 ,4 ACMHO 139 PUE HH7	3.3	1 5	25	-17.3	-19".2		265	199 3.3	1 2
105 A(MH))40 (G-HS7	-13.2		17)	257.2	-54.3	_	34.7	264).)	
101 405L0036 HIT BUS	-1.7	> 4. d	115	- /43 . 4,	12.1	-1205	177	244 1.0	
177 ACSL3337 37- HRT	56.2		130	116.2	241.2	7	65	215 0.3	1)
1 18 ACSED 138 BUR HAT	-16.		130	238.6	- ने ८ - न	5100	14)	254 1.0	1 1
- 117 ACULDDBD 3UR 1184 - 110 ACULDDBD 3UR 5MA	12.7	-12.5 7.2	73	- 39 . 9	226.5	U	1))	233 3.3	1)
111 ACULOGRAP FAL	5).1	3.1		-205.7 -137.6	74.9	- 1000	160 125	214 7.0	1 1
112 ACSEUJ39 HAR EUM	23.4	-15.1	3,2		-105.2		311		1 2
LES ACOLOUS CON LAX	12.7	-5.5	13		-137.1	1000	310	179 0.0	1 1
ACHE PER MERCER ACE	13.4	10.6	42	137.3	145.3	-540	1, 3	214 -2.0	-
TIS AUDIDOSS LOGICXA	-24.4	16.5	60	1.0	-504*9	-1007	270	214 1.3	1 .'
TIM AGUEDOSC ESA INT	51.	5. 5	4)	0.0	23.)•0	-250)	230 -3.0	1 2
117 ACHLOO37 PAL LAX 118 ACHLOO38 FAL 108	•4• •	2.7	5.)		-246.2)	240	250 1.1	-
114 A(UL))33 FAL 104	23.1 -1).3	11.3	4.) 4.)		-19J.7 -226.5		310	249 0.3	
12) [[340]01 x= [44	-5.1	18.2	49	-42.7	117.4))	115	250 1.0 125 0.0	1)
1/1 112 2222 PIC LAX	27.3	2.4	4.3		-1+3.2	í	264	144).)	
EZZ TESHUSSA NT LAX	32.7	4.2	40		-121.7		240	140 0.3	ĺĴ
173 [[580]] OS LAK HED	4.8	41.3	7 A	128.0	72.5	o.	10		ĹĴ
124 [[JE0006 NT SMG	23.4	5.2	57	-4.)	-127.6	J	266	130 0.1	1)
125 T1383307 E38 HUR	4.4	7.2	41	100.6	-65.3	Ú	321	120 3.3	1 J
125 TIGHONG LAX PUC	14.4	3.4	52	61.0	137.0	()	56	150 0.0	-
79H 1M. FOCCAULL 7SL 17U XAJ CLUURELL 8SL.	34.3 28.2	∠•0 4•8	5 j	113.7	-53.0	J	331	130 0.0	-
124 11565515 EAX SNT	22.4	17.3	50	17.0 23.1	134.9	ن ر.	83 82	140 0.0	-
13) 113+0312 SNA LEE	43.1	- 3. 7	25	47.5	1.23.5	-600	5.4	145 0.3 149 -3.)	1 0
141 11:01)13 543 100	22.1	2.0	67	24.2	153.0	3	81	155 0.0	
132 1156 1014 HP1 166	55.3	0.6	51		-127.4	-753	261		1 2
133 Troco 107 RAL Lua	33.4	-1.3	42	-55.3	-160.7	J	251	170 0.0	
134 [1300J03 L34 H93	41.3	21.7		-132.1	230.4	Ü	117	225 0.0	0 1
1.15 [1.15C-D.25] LAX SNA	16.2	-13.1	3.3	- 49.1	107.7	.)	114	190).)	
- 135 TI (COODS VAL SNA - - 137 TI (COODS SNA LAX	46.9 19.6	-5.н -13.4	4)		-197.1	0	243	210).0	
144 [[x,000] nJF LAX	17.0	e.6	4 L	-124.7	63.5	J	323		1 J
137 115COOLL -AL LAX	34.4	1.7	63		-204.3	ა ა	153 265	20, 0.0	1 3
Las Historias mar Lax	2.5	25.5		-128.3	-2).3	ז	189	13) 3.1	
141 TISCOCIS LAX HAT	-21.2	42.0	63	168.8	-97.5	ó	330	195 0.0	
142 1:500017 too HHR	24.H	-1.3	60	3.6	-164.7	1	213	165).0	
1+3 11303314 230 BAG	1 4-3	12.0	51		-145.8	()	282	190 0.0	
14+ TIGC)319 L66 AUR	14.4	9.6	52		-100.2	J	296	185 J.J	
- 145 (150002) HRI PUR - - 145 (1500023 (59 ONT	65.5	25•A	79		-173.6	J	255	145 0.0	
147 TISCU)24 LAX NT	24.4 42.4	-4•н 3•1	12 25	49.2	212.1	1200	55	259 3.3	
144 11a.3325 451 061	7 4	33.1		-130.0	135.3	-1200	70 222	144 ~1.)	
199 11300026 DNT H97	. ,	55.1	79		-11/0 -151.0	0	320	235 7.0	
15) 115CJ73) +JF (64	16.5	27.6		-127.9	119.3	Ö	137	175 0.0	

A4+(+A+1 35.x-36.7+195 50	7	700	% 41 -x-	% MT 31	-17 -1-	K4115 -Y-		+1/MN -7-	1835	580 815	00/50 1 2
151 11 10 1 31				=26.4	11		-135.4		322).u 1 3
151 11 (2) 11			-13.4	>1.5	7.3	-79.4		J	121	155	0.0 ()
133 [1,11]		104	, , ,	- + - 1	21	-63	65.3	- 700	145		-2.) 1.2
154 .1,			45.1	4.9	1.5		92.6)	15	2)5	0.11.
		LAX	9 d	1. 1	19		-163.9	-1000	26.1	169	0.012
155 11 2 113	2.1	- 16	11.5	4.2	43		-165	()	304	23)	1.010
157 11 2 3 135	3.34	1,10	11.) • •	3.2	42.1	233.4	.)	7.8	2)5	1.0 1 0
154 11 3 1 2	1.71	1111	44.7	5.4	1 1	414 - 4	191.2	J.	73	200	3.3 L a
15 - 11 2 - 17	.51	⊅ ਅ	200	3. i	3 ↔	-64.4	-147.9)	250	200	J.) 1 J
150 110000	+31	~ T	52.7	14. 4	5.1	- 73.4	-1+1.3	.)	249	2.15	0.010
151 (1993)		>4.4	24.1	-14.6	2)	-140.7		-1000	135	199	-3.01 /
152 11 3 1139			15.5	~ 1 • 0	5 6		-234.0		210	234	9 + 3 F 3
153 11650 105			12.)	1-1	63		-112.0	1500	330	274	1.0 1 3
154 41 12 131			11.7	12.4	44	-14.7	93.7	1	1))	45	0.010
	.).		15.5	11.3	45	-40.1	33.0	U	115	45	0.00
	***		-1).)	22.1	45	1.4	4++6		35	95	3.3 0 3
147 /1/4/006			1-7	2.4	+ 4	71.5	- 44.)	()	334	40). () () ()
124 A1 (V) 17.		VMY	4 . 1	33.1	4)	-50.0	-61.1	500	231		1.0 0.1-
154 (1.4.1)9			J. 3	35.8 40.1	56 74	-88.5 -76.3	-1+.0	ე ე	134	90 85	0.7 3 3
177 VI-ADULD		SNA	-13.1 26.7	-11-7	13	-60.5	37.2	- 500	14)	7.9	
171 VI (A))13 171 VI (A))15		5 V A	26 • 1 29 • 2	-22.4	3.9	57.×	57.7 -63.9	- 500	310	43	0.0 0 2 2.5 0 0
1/3 /1 / 1/16			46.	-21.2	81	69.2	-11.9	, J	3.37	115	5.000
174 VIGA))15		104	11.7	-11.0	21	35.1	- H 2 - H	j	293	30).)))
175 VESA0320			31.7	15.5	65	-69.6	-46.7		215	94 84	0.010
	TIA		18.2	-21.9	73	-64.7	69-4	e)	133	45	0.010
177 V15A1124			1.4	1.0	44	68.7	-44, 9	- 0	324	45	3.313
172 VISA2025		, 41)	13.7	3,.1	41	- 75,2	-54.9	()	210	113	1.313
179 VIGAD 127	4,4.3	SMP	7	21.7	15	-96.5	25.8	Ġ.	165	100	3.3 3 3
	ςų,	HHS	-5.1	10.0	42	51.2	-64.1	600	310	H 4	J.) 1 1
131 VI,A3329	491	SMC	4.2	9.6	21	-54.6	-65-1	J	230	85	3.11)
142 VIGA 1031	1 4 1	нн∼	ч.,	- 3.6	1)	0.0	- 79.0	500	270	79).))] 1
183 VIA40033	11 2	HHH	31.3	-2.1	42	0.0	- 35 • ()	J	213	45	0.3 7 7
144 VISAU)34	447	Hb1	54.2	16.2	50	U • J	45.0	J	9.0	95	0.00
195 VIJAJ035	101	计设计	4.1	11.7	12	7.7	44.0	-500	35	8.₹	3.0 0 2
105 41543336	141	3:30	24.1	13.7	53	1). +	-1)4.4	Ü	216	105	0.00
•	x) [3 • •	21.0	' 1	-73.4	-5.1	400	184	74	0.001
	44)	ب ر	19.3	34. A	53	-t.5.1	-54-0	J	220	45	0.1)1
	144		25.5	4.3	33	11.0	94.0	- 100	90	94	0.00
140 41300041	57.5		~~.	21.2	5.4	13.4	41.0)	82	190	0.010
191 41540042	¥15		20.5	20.6	75	-43.4	51.8	J	140	90	0.000
192 VIJAJ943			14.5	30.0	94	36.0	-03.2	0	3.25	125	0.000
193 VISAJ()44		CN A	23.9	17.2	55	44.9	-53.6	()	310	7.0	3.3 1 3
	. 44		3).1	-12.4	17	72.4	51.0	703	35	8.9	3.3.3.1
135 VI340047			51.4	5. B	21 55	-20.7	-17.2	.)	255	8-)	3.3 3 3
195 VIGA3049 197 VIGA3050	5 N T		59.3	4.4 -1H.2	92	6.2 -60.1	50.1)	95 135	90 45	0.010
177 VIGAGUS 7			20.5	33.3	63	-60.1 -68.4	39.5	ა 30ა	150	19	0.00
199 VI (A) 152			43.1	20.6	94	12.1	61.	300	43	95	0.0 0 0
271 71547054	. x H		~22.1	15.H	7.7	- (5.0	83.6	3	100	93	0.00
							-			-	

TANGTO A

ATRICHAFT SELVE BISCRIPT ATRICIPT NOT CODE OF ARR		1 2 3 1 1 5 5 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5	·))					100	17-Y C 2 4 Mi
1234557440123456750117				1234507	5771234	567877			
271 VISADOSS x32 + MT	11.7	14.0	 3.	-65.5	45.8)	145		-1.5 3 0
232 11547150 SRT 141	45.1	14.1	4.4	34.7	- 43.9	ϵ_{j}	29)	133	2. 1 1 1
233 VI, A1357 (41 to 7	4.6	34.2	·, 1	73.6	- 19.25 . 6		330	45	
2)4 VI,A)-54 H.1 (MT	5 / . /	5 1. 5	6.4	-69.4	- 57.0	}	5.30	99	1.1 + 2
205 VIGADUS9 PMC FOL	25.5) • '-	24	- 1.' • 1	• • 1 • •	- ()	,12	4	J. 1 1
736 A13901 V30 EW	4 /	1 4 - 1	· - ·	··• • .)	-11 • • •	1	11, 4	115	1. 1)
217 VI 142162 E00 FUL	.> 5 • 1	- 3.4	1.7	2.03	- 1 /	× 15.3.3	7.1	39	2.1
2 8 VIGA DA4 VNY SPY	-) . 5		5 4	- 1	50.9 11.7	2	150	1 15	1.
Len all Parchily 1955 - May Technology (1955 -	4)_) 31.*	- 1. /. +. 1	5.4	-3/.6	-1)3.4	1	ر 5 د	110	1.1
- 21 - V[5A 165 54T CPM - 211 4144:365 AJF CPM	13.7	13.4	5.6	-72.4	17.4	,	156	7.	0.111
212 VI ADO 7 THE CAR	-).	1.6	41,	15.6	-1-1		240	- 1). i i i
213 VIAD 171 -81 DXH	26.9		ΠŹ	-) 4	-19.6		204	+ 5)
21- 41/AU173 TIA 3T	24.1	-4.1	96	41.4	30.2	e.	6.1	44,	1 . J 1 1
219 71740775 - 91 487	.13.	23.1	,4	178.3	-54.7)	337	14.	J. 1
215 V154 O76 Her? 197	52.7	- 1. 7	60	おひ・な	-37.	-60) :	135	d'#	7.) 1 ·
217 / /AJUTH 116 KAL	21.3	-1).3	42	-24.9	-34-1	÷ 700	151	r. I	1. 1 2 1
214 41047379 ×25 ≈AL	52.1	7.4	15	-12.1	- • 1 • 9	50.)	210	→ •	1.1 / 1
219 A124 3251 AT 641	73.1	2.4	~ I	41	112.7	Ĵ	70	120	() - 1 ·
े १४१,४१ स्ट स्तु ६१०	25.0	-13.2	56	79.8	-29.0		347	4.5	5. 3. 3. 3.
in 11g of DAVIDS with the little of the lit	10.5	30.1	34	54.3	-53.9	(:0:)	32)	9.4	3.3 0 2 3.3 1 1
- 1 3 VI (4) 147 I 16 OM	14.1	12.7	3 3	95.3 93.0	4.9 -33.8	200 710	14)	رد برد دردی	1.)] [
The second of the contract of	16.	-). 3	41	134.2	- 48	7.7.7	135	115).))
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	33.	4.1	34	44.2	7).7	.)	40	11)	1.3))
April 1 A 130	1).	-4.6	34	12.5	55.2	j	69	65	1. 1. 1. 3
1 1 2 2 3 3 3 44 44 11 1 1 3 6 1	45.0	24.1	65	-65.1	54.6	9	140	85	0.7))
10 C 10 A 1 A 1 T 1 T 1 O C	4 1 . 3	- 1.2	3 1	34.2	43.4	0	7.)	10)	1.)))
the state of the state of	65. +	-2.1	74	0.0	11.0	J	QU	90	J. 0 ' J
15 41 A 199 C NO MIT	57.3	-5.1	4 7	-3a.U	51.5)	115	40	3.3 3 7
1987 47 A. 199 4AL XLT	500	~ 2 • 7	24	-61.5	53.6	ા	145	9.1	4.3 3 .
CONTRACTOR AND AND ARMORE	9 - 1	17. 1	3.6	6 m • G	57.4	1	4.3	47	1.2 2 3
Committee of the second second	* •		3.5	41.	() • ()	J	85	
- 1	-). ³	16.5 =5.1	2.5 35	51.2 24.5	~63.1 71.7	501 a	310 75	59 95	-2.9 J 1 1.3 1 3
- 33	25.9	14.9	17	3 2	*1* ***.**		25	95	1.1 1 2
The state of the s	56.5	-11.7	2)	82.1	-11.5	630	150	84	3.))1
14 . 1 6 1 UP 34 . #HP	1	6.	34	79.2	27.0	500	2)	79	0.001
15 + v E A 1 139 Home WHP	13.7	-1.7	46	-42.1	117.4	J	(1)	1.25	5.5 1)
200 VEGANIE IN ARC	24.1	12.4	44	41.4	- 42.2	O	1)7	45	0.00
11x 511 51110 4 1 4 1 1 x 11	3.4	25.8	3.4	03.5	16.4		10	95	0.)))
292 (1580)114 XOI HH7	~ h . H	54.0	54	63.4	-21.5)	115	7.3	7.010
143 VITADILE HAS \$42	04.4	-33.4	55	31.5	. 44.0	J	335	90	0.000
244 /1/ADITS X/5 HAT	45.8	10.6	21	-47.4	-45.1	-13.)	240	44	0.0 1 2
2+5 VISADIZU SZZ 497	-23.1	57.7	45	113.2	17.9	0	1.7	115	0.)))
141 VIGADLES 359 X32	1.1	24.6	43	42.2	-47.5	"	330	95	0.000
- 247 V[3A0124 K[4 (37 - 248 V[3A0125 H3) X37	42.4 15.1	26.9 65.5	54 47	76.6 -49.5	-54.2 -51.4) ()	320 2 1 0	120	0.0 1 0
- 24H VI (AU125 H3) X37 - 24H VI (AU127 WHP L3H	23.1	-19.6	34	-61.0	12.1	C C	130	45	0.00
250 VI A 1129 WHP SHT	25.5	19.6	57	-8.2	94.6	2	95	-25	0.00
				· • •			• •	.,	

EABLE and

AT < C * AF T	ATRCKAFT								TURN = 1
- SEND DESCRIBE TIKE ALL		. MI 11.		KNUES					KATE J)
MIL CON HER ARM		- Y -		- Y -	χ.				5750 1 Z
123456745312345673901						567893			
251 VISADIBU HBI 59T	79.4	13.7		-39.9	-61.7		240)	 50	1.) L)
252 VIJADI32 TJA X25		1.3	15	54.6	55.1	.)	50	45	ز ر ز ر
253 VIJAOL33 341 425	4 . 5	1.7	23	0.0	79.3	600	40	79	0.) []
254 VI 340135 CAT KIS	·) . · ,	37.0	14	69.2	31.9	Ü	30	83	J. J J J
255 VIJADI37 SNA +33	44.9	-23.3	33	-9.1	104.6	ว	45	135	1.1 1 1
256 VIGA0139 CVT F13	41.1	14.1	34	61.2	-51.4	3	320	нJ	3.3 3)
257 VIGADLBY VYV X44	26.2	34.1	55	42.5	73.5	,	60	45	0.0 0
258 VIUA 3141 X43 HB7	5.5	56.9	44	72.5	-33.H	Ú	135	4)	3.3 1 3
259 VIGRUUUL VAT LUF	16.5	10.3	15	-59.9	103.9	Ü	120	153	0.000
250 VIGROOUZ RUP LUM	20.3	6.5		-119.5	13.4	õ	175	150	0.0 0 0
251 VIGBORTA TAT LOB	20.3	-3.4	źź	-64.2	- 10.6	ij	230	102	0.000
252 VIGHOUS AUF LOR	10.3	32.7		-154.4	13.5	ý	175	155	0.0 i J
263 V1580307 L36 LA	50.0	- 2.4	23	-112.7	-41.)	ó	200	125	0.000
264 VIGHUDDE 155 LGR	31.4	-2.4	26	-15.6	-34.6	Š	260	90	J.J J
265 VIGROOL2 VILLUS	55.1	-21.0	40		-115.0	Ü	213	115	3.317
266 VIGEOUS 433 LGB	34.7	-31.0	47	135.9	-53.3	ິ້ນ	335	150	0.3 0 0
257 VISHOUSTS HB2 LGB	64.5	-15.9	21		-144.4	ົ້າ	215	145	2.3) 3
254 VISBODIO LSB H82	6.H	-6.5	16	110.3	-92.5	800	320	144	1.0 1 1
267 VI HOULD THA VNY	24.4	11.0	24		-115.0	()	210	115	J.J J J
27) VI 80019 216 VNY	16.7	-4.1	25	-19.4	113.2	ő	100	115	0.000
271 VI 183020 PM VNY	17.5	0.6	23	118.1	-20.8	Ü	350	120	0.000
272 71543021 0XP VNY	-27.5	16.2	36	0.0	115.0	ō	90	115	3.3 3 3
273 VISHUUZZ HAL VNY	31.3	13.1	44		-149.7	Ö	235	155	0.000
274 VISBOOZ FAE VAY	34.4	15.1		-122.1	-44.4	2	200	130	3.3 3 3
275 VIG-0027 FIR VNY	54.5	14.1	26	76.4	-01.1	199	313	119).) })
275 VIGHOO28 XUL VNY	3.1	31.0	-	-103.0	-59.4	500	210	119	0.001
277 VIGE 2331 SHT VNY	29.5	15.5	47		-152.4	0	283	165	3.3 1 3
273 VISESUSI SEL VAT	18.9	51.4	44		-113.1	0	260	120	3.3 3 3
279 VISESUSS XIS VVY		-11.7	44	138.5	-8).0	ŭ	330	160	0.010
	44.8	34.8	35	-86.6	50.0	j	150	100	0.3 3 3
240 VIGBOJ35 H87 VNY	-12.0		85						
231 VIGROU36 VNY H37	-13.7	62.0		126.8	-46.L))	340	135	0.0 0 0
242 VIDBORR VNY HBO	-2.7	39.3	5 j	70.7	70.7	0	45 250	100	0.000
241 VI 380 339 HRI VNY	33.5	37.2			-	0			
ANS YNV CACCADIN ARS	3.7	-5.1	35	-HP.0	73.9	0	140	115	0.000
245 VIGROO41 SMO SNA	29.3	-0.3		-113.2	19.9	0	170	115	0.000
286 VIGEOJA4 SER SNA	14.8	-10.3	55	-88.9	126.9	o o	125	155	3.3 3 3
247 VIGBUU47 X25 SNA	51.4	-5.4	24	-86.6	-44.9	0	210	100	7.3 0 3
248 VIGEOD48 X14 SNA	45.	16.4		-105.0	7.0	0	190	105	0.000
249 VIGEOD49 X43 SNA	43.3	33.7		-102.8	122.5	Ú	130	160	0.000
290 VIGRO050 SNA HB3		- 34.1	50	-80.4	67.4	0	140	1.)5	0.3 3 3
291 V[JRJ051 HB3 SNA		-36.5	67	118.7	-99.6	0	320	155	0.010
292 VIGBO352 SNA HB2	33.H	20.6	53	0.0	154.0	600	90	154	0.0 0 1
293 VIGEO054 VNY TOA	-1.3	5.8		-114.5	17.0	0	175	115	0.00)
294 VISB3057 CND TOA	34.4	9.3		-106.0		0	225	150	0.000
295 VIJRO059 INT THA	20.0	-5.A	26		-116.9	0	240	135	3.3 3 1
296 VIGROOGO L16 TGA		-14.8	6		-113.0	600	279	119	1.5) 1
297 VIJB0061 PM0 TUA	15-1	14.8	43	-80.3	95.7	0	130	125	0.717
298 VI380062 CC9 THA	34.8	5.9		-108.2	-62.4	0	210	125	0.3) 0
239 VIGRO364 L12 TUA	63.H	3.0		-129.9	-74.9)	210	150	0.3 1 0
300 VIJBON65 SER TOA	1.3	-). }	3.6	-110.4	45.9	J	157	150	0.)))

TARLE & Continue 18

AIRCKAFT			ET PUSTI							TUPY	
SELV MESCRIPT	TIRBIKI		AMELL	-).)	KNOTS	KNOTS	FIZMN	BRNG	500	HATE	.))
% 1. July 18	JES YEL	- x -	- Y -	- 1 -	- Y -	- 1 -	-1-	DESS	* 13 C	16/5%	1 .
1234567893123	45678 101	23456799	91123456	109	0123456	787)1234	567890	17345	67340	112345	6784)
301 VISA0067		-	-18.6	÷5	3.0	-41.3	J	273	47	9.0	
135 AL269798			-12.7	24	104.2		ر	335	115	0.0	
317 V(58317)			- 3. 1	40			.)	230	105	3.1	
304 41580071	-		16.9	45		3.1	200	175	44	0.0	
305 VI 200172			-25.5	46		-131.5	,	293	140	0.)	
3)/ (1,41,41)/3			39.6	6.4		-103.4	U	213	135	3.0	
3)7 VI 3B0 174			-21.3	14	-47.1	63.0	U	145	113	7.7	
31- VIGPUO75			-12-7	34,		-125.0	Ú	273	125).)	
134 AL26234	T14 HH		-6.5	54	54.9		1)	65	130	0.3	
31) 41561142			1 + 1	45		-105.2	700	285		- 3)	
311 ALCO 1744			8.6	10		-56.7	() CH =	215 260	125	J.0	
312 VIGNORH5			4.9	27		-123.1 -90.1	ó	235		9.0	
313 V(SP))36			25.1	43			7	320	110	0.0	
314 VISANIA7			6.3 50.7	25 44		-103.2	, i	240	125	0.3	
315 71581)88			-9.3	47		-147.2	0	300	170	0.3	
315 V[G83091 317 V1530393	. x3 3 54 .		44.8	87			ō	345	100	0.7	
317 V1333743 314 V1380394			63.4	ر د	-98.6		3	230	105	7.3	
317 (15E)195			23.9	75		193.3	ن	73	110	0.0	
3.10 VISEVERS			4.1		-123.1		3	170	125	0.0	
3 1 VISCOSE 3 1 VISCOSE			-6.8	25		-122.1	0	290	130	0. 1	
322 VIU-0014	TUF HHP		-1.3	20		-131.9	400	280	134	0.1	
323 V[393399			-1.3	26		-108.3	7.0	260	110	0.0	
324 + 15H0100			5.1	23		-117.4	á	253	125	J.0	
325 71060101			-5.A	26	52.4	-90. 9	9	330	105	0.0	
325 V[38J1)3			2.7	39		-115.9	ű	240	135).J	
327 VI (2)196			17.9		-133.4	36.7	ő	140	135	0.3	
323 VI (80107			11.0	34	-99.7	-6.9	Ű	134	100	0.5	
324 71753109			30.0	56	-22.5	128.0	ij	100	130	0.0	
333 71740110			19.6	57	-19.1	108.3	Ú	100	110	J.J	
131 VISEDILL			31.7	5.5	-14.1	108.3	ŭ	100	113	0.3	
332 71520113			32.3	65	-95.2	-54.9	į	210	110	0.0	
333 71380115			- 8.9	33		-173.4	0	310	135	0.3	
334 VI 18 J119			3.1	46	93.2	111.0	o	50	145	0.0	
335 V1580120			12.0	46	- 43.7	-14.7)	190	85	0.0	JJ
336 VIJPO122	XL7 BUR	34.8	3.4	24	57.3	-122.3	Э	295	135	0.0	1 0
337 VISBUIZ3	×42 408	43.1	-15.1	25	84.0	- 13. 4	0	320	115	0.0	0 0
334 VI590124			27.4	45	-169.3	14.8	J	175	170	0.3	JO
334 VIJB0127	443 BUP	7.5	38.9	56	-134.0	J. 0	500	180	184	0.0))
340 VIGHOLAU	HRI BUR	17.9	15.8	47	2.3	-134.9	0	271	135	J. J	l U
341 VIGPOL31).0	34	130.2	109.2	ð	40	170	0.0	0 0
342 V[380132	VNY POC	5 • 2	23.4	3.7	-41.C	112.7	0	110	123	0.0	0 0
343 VIGRO133	SNA PLC	31.3	-5.5	33	135.2	36.2	2	15	140	ე.ე	0 0
344 VI580135	AJE POS	38.2	33.4	57	-11.6	132.3	0	125	125	0.0	U J
345 VIGE0138	KLT POS	62.7	-1.2	25	92.5	-110.3	600	310	144	-1.3	JI
345 VIJBU149	XOL PLC		21.2	55	-30.3	95.7	0	130	125	9.0	၁ ၁
347 VI 790141	X42 PUC	52.4	-12.0	25	99.6	-118.7	0	310	155	0.0	ა ე
348 V1360142	X37 Pac	3.7 . 3	48.9	54	-113.2	-19.9	О	190	115	3.1	1 0
34 + VICRO143		41.3	-12.0	41	00.6	-50.0	J	330	100	0.)	J 3
350 VI 190144	SHT PIC	5 3 . H	4.1	25	-94.5	-51.4	.)	213	115	1.0	0 0

TABLE [4.] (Continue !)

			S				(6 141 X	*
AIRCHAFT A TAINCE VESC	LADOLT	AIRCEAFI N ML N	93511 11 FT		KNOTS		ETZMN.			TURN C C FATE 3 3
	EP ARP		- Y -		- Y-	~ X ~			KTS D	
123455789012345										
351 V17H0145 X	ST POC	38.2	0.6	23	103.9	~60.0	9	330	120	0.333
352 VISHO146 9	10 -481	53.1	16.5	54	-11.7	134.4	J	95	135	0.0 0 1
353 715031+7 4	-	63.1	24.8	6, 3		-157.5	0	260	163	0.111
354 /15H3149 L		23.1	- 5.5	21	55.1	145.0	0	70	155	3.0))
355 VIGBULSO V		· 1	25.1	35	34.6	124.4	300	75		-1.500
355 VICHD154 H		48.6	5.8	36		-107.1	-600	250	114	3.3 3 2
357 VI380155 H		28.2	7.5	34	-4H.H	115.0	0	113	125	0.000
359 VIGBULS6 C		34.4	-1.3	36	59.5	133.0	- 407	60	119	0.002
354 VIGPUISS L		26.4	-4.l	37 35	57.5	97.5	0	130	115	0.002
340 VISBU160 (351 VIGRU163 #		32.1	6.5		-111.H -121.3	133.2 83.1	-1000	144	150	3.303
351 VIGNUIGO #		45.0	-5.1	23	81.0	-56.1	-300	325	49	0.0 0 2
	ZP CNO	-27.5	20.0	31	J.U	130.0	- 500	90	130	3.3 1 3
	2 CNO	55.1	12.0	54	-93.5	150.0	ú	170	95	1.1 1 1
	BT CNO	54.5	6.5		-121.8	-	800	220	15+	2.2 0 1
	43 CNO	37.2	31.0	53	-80.2	172.1	000	115	190	5.5 5 5
357 V1680173 €		37.6	18.6	67	125.9	45.8	480	20	134	3. 3 0 3
363 VIG90175 6		70.3	-6.8	53	-53.0	1.5.6	Ú	110	155	3.) 1 3
369 VIGBOLT9 C		42.0	15.5	56	23.4	132.9	Ū	80	135	J.J 5 5
370 VIUPOLEO H		29.3	25.1		-130.3	34.9	Ü	165	135	0.000
371 VIJEDINE C	-	47.2	1.7	33	23.2	131.9	500	80	134	0.011
372 71340182 P	JC EMT	27.5	4.2	15	5.1	-98.8	700	273	99	0.001
	VT F41	33.4	7.9	26		-123.0	Ù	280	130	0.00
374 VIG-0184 4	JF EMT	47.2	23.0	55	-124.5	10.8	Ú	175	125	0.0 0 0
375 V1680185 L	66 FMT	21.5	1.)	44	77.4	-134.2	. 97	300	155	0.000
2 9810891A 92E	FR FMT	12.4	23.R	56	-11.7	134.4)	95	135	0.0 0 0
X 9810551V 77E	31 FMT	5.5	41.0	57	-126.8	46 - 1		160	135	0.0 1 0
318 ALCHOTAC X	25 F 4 T	43.4	5.1	45	-52.4	-40,74	U	240	105	0.00
319 VISHO141 X	43 EMT	52.0	24.4	53	- 13.2		300	130	114	2.5 0 1
H 56108°1A (88		2.0	42.0	54	-3).4	. ∕ 67 . 4	υ	140	105	0.0 1 0
381 VIGBOU93 F		34.4	55.1	75	150.3	54.7	Ü	20	169	0.000
382 VIURO196 H		5 • H	51.7		-159.7	59.1	C	160	173	0.010
383 VIGBOL97 V		7.7	11.0	37	-31.0	115.9		105	120	3.000
384 VIGH0203 S		5 • H	20.6	15,		94.2	0	125	115	0.0 0 3
385 VISBO204 W		26.2	-1.7	2.2		-171.5		235	124	0.0 0 2
386 VISBU2U5 X			-12.7	45	88.3	-48.3	0	315	125	0.007
387 VIGBO207 X		42.4	2.0	45		-103.9	0	240	120	0.)00
- 388 VIGROZDR F - 349 VIGROZIZ SI		66.2	26.2	56 25	60.0 57.8	103.9 -68.9	ა 0	50 310	120 90	0.000
	уч СБМ	13.1 / -13.7	9.3	34	-64.9	112.5	0	120	130	0.0 0 0
391 VIGEU214 H		-13,4 ,3,4	36.2	56	-98.2	68.8	0	145	120	0.0 0 0
392 VISBUZIT L		16.5	-2.7	25		-105.0	õ	270	105	3.3 0 0
393 VI760219 S		-11.3	28.6	33	22.5	128.0	o o	80	130	0.000
394 VI 680229 X		34.4	48.2	57	-99.5	83.5	o	140	130	0.010
395 VIGEO222 H		3.4	-2.0	36	-8.6	98.6	-800	95	99	0.0 1 2
396 VISB0223 C		-6.2	22.0	44	108.2	-62.5	0	330	125	0.0 0 0
397 VIGB0225 S		~31.)	4.1	24		-137.6	-700	240	159	0.0 0 2
398 VIS90226 C		-1.3	31.0	64		-140.9	ີ້າ	253	150	0.010
399 VIGHO227 F		-23.8	19.6	46		-129.7	Ú	262	130	0.000
400 V1580230 1		25.8	11.2	55	57.3	-81.9	Ü	335	100	0.000

TABLE 4-1 (Continued)

AIPCHAFT SEUN OFSCHIPT NI. CLOE	DEB THE	- x -	. 41 FT- - Y	- 00 - 2 -	KN015 -Y-	KN 175 -X-	FT/MN -7-	963\$	SPO KTS D	
12345678901234		734557K91	1234701	1890	123476	18901234		11234	201840	11234567843
401 V1680231	DAI OXO	40.7	5.5	43	a.o	-115.0	J	270	115	-1.9 0 0
412 VI380232		-1.7	43.1	44		-125.9	200	245	139	3.3 3 0
+J3 VI380233	-		3). 3	ช 5	59.3	-164.4	()	290	175	0.3 0 3
	AHP UXR		17.2	23	-21.2	-131.9	800	260	134	J.J J 1
435 VI 30237	JXR HB/	- 32 . 7	55.1	35	118.1	20.8	U	10	120	J. J J J
405 V15E023H	нь 7 ∴х¤	-27.6	34.4	65	-125.1	-51.5	J	202	135	0.00
407 VIGB0240	VNY INT		20.6	50	U.0	155.0	υ	90	155	0.000
	SHA INT		-7.5	55	74.2	74.7	ú	45	105	0.000
	SALINI	40.0	30.3	5.5	-21.7	123.1	3)	100	125	0.) 1 0
	TPM UNT		- 1.4	36	50.3	80.5	0	58	95	0.000
411 VIG. 1250			4.4	31	84.2	62.5	- 300 U	35 190	109	-1.5 U 2 0.0 0 0
412 VI 30253			27.5	36	-172.3 -29.0	-3J.3 79.8	0	110	85	0.00
413 VEGRO254			16.5	65	10.1	-84.2	0	310	110	0.3 5 6
414 VIGa0257 415 VIGB0258	Cah TV!		36.2 10.0	30		-110.1	- 800	255	114	0.0 1 2
415 VIUE 1250		51.4	7.2	23		-243.8		217	244	3.3 0 2
417 VIUE 0262			10.6	20	-35.5	91.7	-800	110	104	3.0 1 2
414 VIG90264		3.4	23.4	56	-58.1	159.7	Ü	110	170	J.0 0 0
419 VIGH0265		55.1	-6.5	36	84.8	84.8	Š	45	120	0.000
+20 V1380266			-11.9	3.7	-80.3	114.6	0	125	140	0.3 3 3
421 VIGBJ267			-1A.9	54	106.0	136.9	0	45	150	0.313
	HHR RAL	14.8	-4.4	35	-74.2	74.2	0	135	105	J.J U O
423 VIGPU269		7.5	9.9	35	-77.7	77.7	0	135	110	-2.000
424 VIGE 3270		47.9	-0.3	2)	94.3	54.4	-1000	30	109	0.002
425 VIGP0271	FUL PAL	31.3	-4.1	35	0.0	150.0	0	90	150	J.O O O
425 VIGB0274	UNT SAL	40.3	5.5	10	-47.4	17.1	820	170	99	0.0 0 1
427 V1580277	PAL HBO	40.3	35.1	35	90.9	-52.5	0	330	105	0.000
428 VIG80279	RAL HB2	59.6	-15.5	43	-64.9	112.5	0	120	130	0.0 0 0
427 V1380280	HB3 KAL	53. ฮ	-25.1	44	118.1	-20.8	3	350	120	0.010
437 VIGB0292	RIK F19		2.7		-102.8	122.5	Ų	130	160	3.3 0 0
431 VISR0283			29.3	53	-37.6	103.3	0	110	110	3.3 0 3
432 VIGBU284			25.P	7.7	-99.5	57.5	0	150	115	0.0 1 0
433 VIGRO286		27.9	12.4	64	144.4	12.6	J	5	145	0.013
434 VI380287		-2.1	22.7	3.8	99.8	5.2	O.	3	100	J.J J J
435 VIGB0289		3.7	44.1	45	99.5	57.4	U	30	115	0.000
436 VIG80290		16.2	-1.7	26	67.5	116.9 -54.9	0	60 335	135 130	0.000
437 VIGH0292		56.9 -5.8	20.6 32.7	66 35	117.8	-47.8	5	340	140	2.0 0 0
438 V[GRO293 439 V[GRO294		-3.4	49.2	55	-4.5	129.9	9	92	130	J. J J O
440 VIGB0299		1.3	31.0	33	192.3	71.6	ü	35	125	0.000
441 VISBU298			31.0	73	136.8	-24.1		350	139	0.0 0 2
	SER DAD	1.3	23.4	15	123.9	2.1	800	ì	124	3.3 3 1
443 VISB0302	האם פאש	17.5	44.1	39	0.0	119.0	- 400	90	119	2.5 0 2
444 VIGBUBUB		7.9	62.0		-123.6	40.1	Ĵ	162	130	0.000
445 VIGBUSUS		-7.4	15.8	24		-118.7	ō	310	155	0.0 0 0
445 VIGB0307		-23.3	18.6	35	46.1	126.8	0	70	135	0.3 0 0
	RIK LOZ	20.6		63	14.9	-113.2	J	230	115	J.J J J
448 VIGB0311		13.1		64	47.8	-131.5	ο	290	140	0.00
449 VIGBU312	HR7 LUZ	-13.7	44. P	55 -	-108.0	39.3	J	160	115	0.000
450 VIGBO313	L 92 HB6	-37.9	48.2	86	86.J	-60.2)	325	105	0.001

TABLE 4/1 (Continued)

		FT P 51T		A 1 // C D 3 I		L T 🛩		JE NO	£ (12.5)
ALKUKAFT - SEUN DESCHIPT ALKP		'I # 511; 'Y #1 F [:		KNUTS	Kaula		Gara .		-
NO. 2002 05P		- Y =		- Y -	- 4				ر از از دران
123456747)12345979					8901234				
•••									
451 VI, PJ315 132	HR2 -1).)	21.0	24	53.2	137.8	100	55	114	7.7 01
452 VI /49317 340	CC + 20.6	11.0	34	12.2	139.4	ز	45	14.)	0.)))
453 VISPOSES LITE	CC3 -27.5	21.0	26	13.2	193.4	43	30	i.15	7.)))
454 VISPUBLY 180	CCH 26.9	13.7	25	0.0	100.0	Ü	99	15)	3.3 1 3
455 V1,80322 CCH	HR1 70.7	17.9	35	70.7	70.7	•)	45	100).) i)
456 VIGEO323 HB1	C(H 54.4	7.0	61	-44.9	~ 35.6	J.	240	ن ن ا	J.J 0 U
457 VIJBJ324 ITA		-14.4	55	116.9	61.4)	37	135	1.0 0 0
	136 44.1	12.7		-121-4	56.6	- 80-)	155	1 54	0.000
459 VIGB0326 54T		6	3 3	12.6	144.4)	45	145	0.00
460 VIGBU327 CX4		11.7	3/	-21-7	123.1	0	133	125	0.0 1 0
	136 2.4	13.4	3.6	- 9 . 4	134.6	Δ.	34	1.15	0.000
	APV 19.6	30.7	74	87.5	151.5		5)	175	0.0 1 3
	1PV 53.4	20.0	75	130.0	0.0	£ 2.3	70	13)	0.000
	APV 10.6	21.2	75 44	42.4 -45.2	-54.9	50J ()	70 210	124	0.001
	APV 05.5	- H . 2	36	50.0	Hr . 6	3	50	100	J.J 0 J
	L66 20.2 L66 37.9	-1.3	15	-33.3	124.6	- 900	105	129	-1.5 0 2
453 V[35]337 NOF		-19.3	74	-86.6	50.0	3	150	195	J.J J J
459 VIJ90340 CN1		3.1	15	30.7	114.9	400	75	119	3.3 3 3
473 VIGAD341 SEP		11.7	35	4.3	124.9		88	125	3.0 0 3
4/1 V158 1342 HHP		32.7	36	48.1	103.3	300	65	114	7.3 3 3
	×17 51.7	-4.5	35	-94.2	65.4	0	145	115	2.3 3 2
	X17 64.9	-4.3	36	- 76.9	133.3	-700	120	154	0.3 3 2
	x17 53.3	-3.4	37	-48.6	134.2	0	115	115	0.000
	X17 70.3	-2.4	35	-124.5	17.9	0	175	125	0.000
	X17 68.3	-16.2	25	125.9	-45.0	-300	140	134	0.002
477 VIG90352 HHR	SER 2.0	1.3	27	112.5	-65.0	0	330	130	0.00)
474 VISAD 351 POC	SFP 16.2	13.1	28	77.4	-134.2	•	300	155	0.1 1 0
479 VIGRO357 SNT	SER 18.5	14.1	42	35.9	- 14.6	3	290	105	0.000
ARD VIGRU35H RAL	SFR 33.1	11.7	43	64.2	- 76.6	C	310	100	J.J J J
451 ∀1380361 H87	SF4 -17.6	36.2	57	-126.8	46.1	U	160	135	0.000
482 VISBU364 SER	480 7.9	51.4	57	137.8	24.3	ن	10	140	3.4 3 3
	SFR 24.1	32.7	65	-13. R	-78.7	0	260	но	0.00
	HRT -3.6	26.9	34	14.0	59.5	600	3 7	79	0.3 3 1
485 VIGB0368 SNA		-10.0	26	77.4	113.5	Ü	55	135	0.000
	PIP 13.4	-13.4	3.7	0.0	125.0	U	90		-1.0 0 3
	RTR 21.0	10.6	15	106.4	89.3	3 3 3 3	40 75	105	-1.5 0 1 0.0 0 0
- 49° VIGBO373 (PM : - 451 VIGBO374 (XR !		-5.1	33 57	27.1	101.4	0	80	115	0.000
		29.3 17.5	57	117.4	-42.7	0	340	125	0.1 1 0
	HB1 57.9 RTR 61.0	+1.3	54	-83.1	113.7	3	125	145	3.3 3 3
	HAU 40.7	48.9	47	164.4	-59.8	j	340	175	0.000
493 VIGO378 HRZ		-5.1	46	117.4	-42.7	ō	340	125	0.000
	H82 51.0	-1.3	16	-85.7	49.5	รอง	150	99	0.0 3 1
	WHP -6.2	20.6	30	-12.2	139.4	0	45	140	2.000
	WHP 26.9	11.7	27	33.0	-73.9	ñ	320	115	0.000
	WHP 24.1	18.2	43	76.4	-91.1	100	310	119	0.000
	WHP -2.0	22.4	26	-70.0	83.4	-850	130	109	0.000
499 VIGB0387 CPM		-2.7	40	22.5	129.0	J	80	133	-1.3 3 0
	nHP 24.1	2.4	35	86.6	-51.0	J	330	100	0.000

TABLE 4-1 (Continued)

AIRCRAFT		5.1 9 T		T POST		ALECHA		CITY FT/MN	RHNG		TURN C C
NO. CODE		APP	- x -		-1-	-Y-	- X -				ogisc i z
123456789012	345676	3901.	23456789	0123450	5789	0123456	1840153	4567890	1234	567840	31234567847
501 V158038		uu o	33.4	14.1	45	20.2	-178.0		290	115	0.000
502 VIGBU389			48.2	13.7	45		-12d.U	J	280	130	0.0 0 0
503 VIGEU391			-24.1	65.5	45	-88.3	88.3	0	135	125	3.3 3 3
534 VIGB1392			45.9	-16.2	64	88.0	-73.9	n	320	115	0.00
505 VISB039			-0.3	24.1	25	116.5	42.4	600	50	124	0.001
505 VIGBU394		MHP	35.L	22.7	84	-38.9	-107.1	-200	250	114	0.00
507 VISRO 396	AUT	101).3	30.7	34	106.4	14.5	3	35	130	0.100
508 VIGPU399	HHR	XO I	21.7	14.1	44	113.2	-19.9	Ü	350	115	0.000
509 VISBO401	(P4	x01	-3.4	31.3	3.5	147.7	26.0	2	10	150	2.5 0 0
510 VIGE0402		XO 1	45.2	21.3	65	115.0	0.0	0	0	115	0.000
511 VIGB0404			-1.5	51.7	66	-94.5	57.5	3	150	115	0.7 0 7
512 VIGE0405			37. +	-6. H	56	-14.9	154.4	J	120	150	0.00
513 VIGNU401			31.7	-23.8	35	9.1	134.6	J	62	105	0.3 0 0
514 VIU80404			34.0	-8.9	35	-103.9	60.0	0	150	120	0.0 0 0
515 VIGBO41			53.8	-4.8	25	-103.3	37.6	0	160	113	3.3 3 3
516 VIGE)411			66.5	-25.1	46	111.0	-93.2	U	320	145	0.000
517 VIGEO413		-	-24.1	25.5	26		-132.9	0	280	135	0.0 0 0
518 V1680414	_	SZP	-9.6	18.9	47	83.5	-94.5	0	310	130	0.000
519 V1663415			-13.3	8.2	45	83.5	-94.5	0	310	130	3.0 0 0
520 VI380416			-6.2	13.1	30	49.9	-86.6	0	300	100	0.000
521 VIGRO419	_		-15.8	28.6	33		-127.0 50.7	- 4JU	260	129	0.0 L J
522 71350421 523 71380423		-	-37.9	55.1	84	-119.6 84.2	-13.7	0	157	130	3.3 3 3
524 VIJB0425	_	X32	17.9 44.8	24.8 25.8	64	65.l	-54.6	0	320 320	110	0.0 0 0
525 VIGBU426			7.9	45.1		-134.2	-35.9	-600	195	139	-2.5 0 2
526 VIGB0427			-1.0	63.8	65	-115.0	0.0	000	180	115	0.000
527 VIGBO429			-16.7	34.8	35	117.9	-32.5	150	325	144	0.0 0 0
528 VIGE0430			-17.6	17.2	36	116.9	-67.5	. J	330	135	3.000
529 VIGBO431			-3.1	8.6	24	118.7	-99.6	Š	320	155	0.000
530 VIGBU432		x37	13.7	36.9	64	95.2	-55.0	ŏ	330	113	0.0 0 5
531 VIGP0434		X37	51.0	16.9	46	198.8	5.7	200	3		-1.0 1 0
532 VIG80435		HB 7	6.8	57.f	34	40.6	-83.6	700	315	114	0.0 0 1
533 VISR0436	CNO	L38	46.9	-22.4	27	-95.4	-95.4	<u></u>	225	135	0.000
534 VIGR0439	RAL	L 38	53. L	-15.8	21	-122.1	-44.4	U	200	130	0.000
535 VIGB0445	SMU	SBT	36.5	13.1	36	18.2	103.4	0	90	105	0.000
516 VIGB0448	102	SBT	19.5	33.1	53	-9.5	139.5	0	95	110	0.0 0
537 VIGB0450	SZP	SBT	-4. H	35.5	55	52.8	113.2	0	65	125	0.000
538 VIGR)454	TγA	¥25	25.5	-6.5	37	46.0	98.7	-200	65	109	0.00
539 VIURO455			13.1	13.4	34	35.5	97.7	200	70	104	0.0 0 J
540 VIGRO458		x 2 5	-3-1	26.5	36	114.4	71.5	0	32	135	0. 0 0 0
541 VISB0461	-	-	56.2	9.6	3.5	52.6	144.7	900	70	154	0.0 0 1
542 VISB0462			73.7	8.6	64	-3.4	-99.9	0	268	100	0.000
543 VIGBU464			-9.6	41.7	55	49.5	136.2	0	70	145	0.0 0 0
544 VIGBO465		X15	22.1	34.1	45	81.9	57.3	0	35	100	0.3 0 0
545 VISBO468		X31	47.9	-19.6	73	48.6	104.2	0	65	115	0.000
545 VI383470		X31	51.0	-11.3	37	-14.2	74.2	0	135	105	0.0 0 0
547 71380474		x 3 3	36.9	-24.1	44	2.0	150.0	0	90	150	0.010
549 VIGEJ475		X 3 3	60.3	-1.9		-114.9	76.4	O O	140	150	0.000
549 VIGBU476 550 VIGBO478		X33	55.5	2.4		-115.0	0.0	ი ე	180	115	0.0))
71J VI903478		A 44 4	32.4	46.5	ታሱ	41.0	112.7	J	70	150	0.000

TABLE 4-1 (Continued)

SEQUIPT AIRPOINT N MI N MI FIF-OU KNOTS KNOTS FIAND RNG SP0 MAIF 0 D NO. CLOP DEP ARR		AIRCRAFI							FT VELO				TURN (
123466 739312 3456 789012 3456 789	SEQV													
551 VIGBUAH 136 X43														
551 VIGBO4AD CCA X43	12345	678931234	567	8 90 L	23456789	0123456	789	1123456				56 / H 9U	1123456	1447
553 VIGCO101 VAS CAS	551	V1583480	CCB	 _ X 4 3	47.9	33.7	45	109.6				155	J.J.	
553 VIGODAR 2 X17 X43 51.7					58.6	16.9	64	142.0	- 12.0	500	3 30	164	J. 3 () :
555 VICCOOD TAR LGB -7.2 H.6 78 -106.0 126.3 U 130 165 U. 1 U 557 VILCOOD 432 LGB 559.3 -117.2 84 24.3 -137.8 U 273 140 0.10 U 0 157 VILCOOD 437 VINV -25.1 17.0 73 70.1 147.6 U 70 205 0.0 0 0 0 0 0 0 0 0					51.7	18.4	15	67.4	-116.9	0	300	135	0.0) a
555 VILCODO MA2 LGB 50.3 -17.2 84 24.3 -137.8 0 240 140 0.0 0 0 557 VILCODO 578 VINY -25.1 1.7 12.0 20 59.4 -113.0 1000 300 119 0.0 0 1 0 0 0 1 0 0 0	554	V1380486	HB 1	X43	53.4	21.5	45	52.4	- 90. 9	J	370	105	D.3 (0 0
557 VILCOJOY SMU VNY -25.1 12.0 73 70.1 142.6 0 70 205 0.0	555	VISCODO1	OXR	FCB	-1.2	8.6	18	-106.0	125.3	υ	130	165	0.)	U
558 VISCOJOS 6XP VNY -25.1 12.0 73 70.1 12.6 0 70 205 0.0 0 0 559 VISCOJOB VNY H80 -1.7 16.5 95 119.5 10.4 0 5 120 0.0 0 0 5 5 5 5 5 5 5	555	VI3C0003	432	LGB	57.3	-17.2	44	24.3	-137.8	0	283	140	0.0))
559 VIGCODOB VNY HRO	557	V16C0004	SMIJ	VNY	1.7	12.0	20	59.4	-1/13.0	1000	300	119	0.0) [
560 VICCO110 PJC SNA 37.3 5.5 35 -162.4 -78.6 0 190 165 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					-25.1		73		1 +2 ⋅ 6	0	70	205	0.0	0
S61 VICCO13 x01 TGA												150		
SA2 VIGCOOL4 HR1 TOA 37-2 -7-9 H6 -35-3 -166-2 0 258 170 0.0 1 0 553 VIGCOOL5 TOA HR1 40.7 2.7 75 95.0 164-5 0 60 170 0.0 1 0 556 VIGCOOL6 HR2 TOA 55-8 -15-5 64 59-8 -164-6 0 290 175 0.0 0 0 0.0 556 VIGCOOL7 CAD SMU 20.0 8.6 63 18.5 -184-2 0 275 190 0.0 0 0 0.0 566 VIGCOOL7 SMU BM 67 -3.4 16.5 63 18.3 -66-6 0 340 195 0.0 0 0 0.0 568 VIGCOOL7 SMU BM 13.1 -7-5 93 57.0 122-3 0 65 135 0.0 0 0 0.0 568 VIGCOOL7 SMU HB1 13.1 -7-5 93 57.0 122-3 0 65 135 0.0 0 0 0.0 569 VIGCOOL7 SMU HB1 12.7 -14-8 85 53.0 -146-6 0 290 155 0.0 0 0 0.0 571 VIGCOOL7 SMU HB1 30.3 21.7 77 0.0 159-0 200 90 159 0.0 0 0.0 571 VIGCOOL7 SMU HB1 30.3 21.7 77 0.0 159-0 200 90 159 0.0 0 0.0 571 VIGCOOL7 SMU HB1 30.3 21.7 77 0.0 159-0 200 90 159 0.0 0 0.0 575 VIGCOOL7 SMU KM CAD 33.4 7-5 53 35.0 147-2 0 60 170 0.0 0 0.0 575 VIGCOOL7 SMU KM CAD 33.4 7-5 53 35.0 147-2 0 60 170 0.0 0 0.0 577 VIGCOOL7 SMU S												-		
553 VIGCOOLS TJA HRI														
564 VIGCOO16 -H92 TOA 55.8 -15.5 64 59.8 -164.4 0 290 175 0.0 0 0 565 VIGCOO17 CNN SMU 20.1 8.6 63 183.2 -66.6 0 340 195 0.0 0 0 0 556 VIGCOO19 H86 SMU H87 -3.4 16.5 63 183.2 -66.6 0 340 195 0.0 0 0 0 556 VIGCOO19 H86 SMU -7.2 39.6 96 -187.1 32.9 0 170 190 0.0 0 0 0 558 VIGCOO19 H81 81.1 3.1 -7.5 93 57.0 122.3 0 65 135 0.0 0 0 0 556 VIGCOO25 SMD H81 13.1 -7.5 93 57.0 122.3 0 65 135 0.0 0 0 0 557 VIGCOO25 CCR 8UR 11.0 13.1 -7.5 93 57.0 122.3 0 65 135 0.0 0 0 0 571 VIGCOO25 CCR 8UR 11.0 13.7 42 57.8 -159.8 -1200 290 169 0.0 0 2 571 VIGCOO25 CCR 8UR 11.0 13.7 7 2 57.8 -159.8 -1200 290 169 0.0 0 2 572 VIGCOO25 TOR BUR 30.3 21.7 77 0.0 159.0 200 90 159 0.0 0 0 573 VIGCOO25 H94 PCC 4.1 0.0 43 114.7 83.1 0 35 145 0.0 0 0 574 VIGCOO29 L16 PGC 23.1 -7.9 19 108.8 109.8 900 45 154 0.0 0 0 0 575 VIGCOO327 HHR CNC 22.7 -4.1 54 56.4 155.0 0 70 165 0.0 0 0 0 577 VIGCOO327 HHR CNC 22.7 -4.1 54 56.4 155.0 0 70 165 0.0 0 0 0 578 VIGCOO340 H81 EMT 35.5 19.6 6-108.9 -155.6 0 235 190 0.0 0 0 578 VIGCOO340 H81 EMT 35.5 19.6 6-108.9 -155.6 0 235 190 0.0 0 0 0 579 VIGCOO340 H81 EMT 35.5 19.6 66 -108.9 -155.6 0 235 190 0.0 0 0 0 579 VIGCOO340 H81 EMT 35.5 19.6 66 -108.9 -155.6 0 235 190 0.0 0 0 0 579 VIGCOO346 HHR CNR 23.8 23.4 75 129.9 -75.0 0 330 150 0.0 0 0 579 VIGCOO346 HHR CNR 23.8 23.4 75 129.9 -75.0 0 330 150 0.0 0 0 579 VIGCOO348 HHR CNR 23.8 23.4 78.2 76 -169.3 14.8 0 175 170 0.0 0 0 579 VIGCOO54 WHP UNT 25.9 23.4 28.2 76 -169.3 14.8 0 175 170 0.0 0 0 579 VIGCOO54 WHP UNT 25.9 23.4 28.2 76 -169.3 14.8 0 175 170 0.0 0 0 579 VIGCOO55 NHR CNR 23.8 23.4 93 140.9 -51.3 0 340 150 0.0 0 0 579 VIGCOO55 NHR CNR 23.8 23.4 93 140.9 -51.3 0 340 150 0.0 0 0 579 VIGCOO55 NHR CNR 23.8 23.4 93 140.9 -51.3 0 340 150 0.0 0 0 579 VIGCOO55 WHP UNT 25.9 29.3 77 13.9 159.3 0 85 160 0.0 0 0 0 579 VIGCOO55 WHP UNT 25.9 29.3 77 13.9 159.3 0 85 160 0.0 0 0 0 579 VIGCOO55 WHP UNT 25.9 29.3 77 13.9 159.3 0 85 160 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0														
565 VIGCOJOLR SMU HB7									-	_		-		
566 VIGCJOLR SMJ HB7														
567 VIGCO019 H86 SMU														
568 VIGCOO20 SMO HBI 13.1 -7.5 93 57.0 122.3 0 65 135 0.0 0 0 56												_		
569 VIGCOUZZ H91 HHR														
570 VIGCO025 CCB BUR 11.0 13.7 42 57.8 -159.8 -1200 290 169 0.0 0.2 571 VIGCO026 73 FUR -2.1 13.1 75 -150.6 87.0 -1200 150 174 0.0 0.2 572 VIGCO027 30F HBI 30.3 21.7 77 0.0 159.0 200 90 159 0.0 0.0 573 VIGCO028 T9A PCC 4.1 0.0 43 118.7 83.1 0 35 145 0.0 0 574 VIGCO029 L16 PGC 23.1 -7.9 19 108.8 108.8 900 45 154 0.0 0 575 VIGCO031 T0A CNO 33.4 7.5 53 85.0 147.2 0 60 170 0.0 0 576 VIGCO032 HHR CNO 22.7 -4.1 54 56.4 155.0 0 70 165 0.0 0 577 VIGCO040 HBI EMT 35.5 19.6 66 -108.9 -155.6 0 235 190 0.0 0 578 VIGCO041 EMT HA0 18.6 23.8 75 129.9 -75.0 0 330 150 0.0 0 579 VIGCO044 HB2 FUL 62.0 -10.0 88 41.0 -112.7 0 290 120 0.0 0 581 VIGCO046 KHF CPM -5.5 15.8 57 -150.3 54.7 0 160 160 0.0 0 582 VIGCO046 KHF CPM 23.4 28.2 75 -169.3 14.8 0 175 170 0.0 0 584 VIGCO046 KHR CXR -9.6 16.2 62 0.0 -190.0 0 279 190 0.0 0 584 VIGCO051 HBI CXR -27.5 48.2 105 -192.0 -33.8 0 190 195 0.0 0 0 586 VIGCO052 CPM BNT 48.6 4.8 38 77.1 91.9 0 50 120 -33.0 0 587 VIGCO054 WHP UNT 25.4 29.3 77 13.9 159.3 0 85 160 0.0 0 588 VIGCO055 XDI CNN 40.3 26.9 74 -56.6 121.4 -500 115 134 0.0 0 599 VIGCO065 NB CO2 -16.5 22.4 29 27.3 20.2 -138.8 800 28.0 139 1.5 0 599 VIGCO066 NB CO2 -16.5 22.4 29 0.0 149.0 -800 90 149 0.0 0 599 VIGCO066 NB CO2 -16.5 22.4 29 0.0 149.0 -800 90 149 0.0 0 599 VIGCO066 NA CO2 26.9 9.6 14 140.9 -51.3 0 340 150 0.0 0 599 VIGCO066 RA CO2 17.5 25.8 92 230.2 -83.7 0 340 250 0.0 0 599 VIGCO066 RA CO2 17.5 25.8 92														
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591 VIGCU060 L38 PAL 41.3 41.3 51 -130.2 109.2 0 140 170 0.0 0 0 592 VIGCU061 X25 L16 39.3 -7.5 41 -121.2 -69.9 0 210 140 0.0 1 0 593 VIGCU062 VNY WUF 3.4 33.1 52 L55.8 H9.9 0 30 180 0.0 0 0 594 VIGCU064 PMD HB7 10.3 41.3 36 74.1 -136.8 800 280 139 1.5 0 1 595 VIGCU065 HB6 L02 -16.5 22.4 20 0.0 149.0 -800 90 149 0.0 0 2 596 VIGCU066 SNA L02 26.9 9.6 54 140.9 -51.3 0 340 150 0.0 1 0 597 VIGC0067 RAL L02 17.5 25.8 92 230.2 -83.7 0 340 245 0.0 0 0 598 VIGCU068 CCB HB1 63.8 14.4 55 0.0 135.0 0 90 135 0.0 0 0														
592 VISCUDGI X25 L16 39.3 -7.5 41 -121.2 -69.9 U 210 140 U.U 1 0 593 VIGCUDG2 VNY WUF 3.4 33.1 52 155.8 H9.9 U 30 180 0.0 0 0 594 VIGCUDG4 PMD HB7 1U.3 41.3 36 74.1 -136.8 B00 280 139 1.5 0 1 595 VIGCUDG5 HB6 LU2 -16.5 22.4 20 0.0 149.0 -800 90 149 0.0 0 2 596 VIGCUDG6 SNA LU2 26.9 9.6 54 140.9 -51.3 U 340 150 0.0 1 0 597 VIGCUDG7 RAL LU2 17.5 25.8 92 230.2 -83.7 U 340 245 0.0 0 0 598 VIGCUDG8 CCB HB1 63.8 14.4 55 0.0 135.0 U 90 135 0.0 0 0										-		-		
593 VIGCO062 VNY WJF 3.4 33.1 52 155.8 H9.9 0 30 180 0.0 0 0 594 VIGCO064 PMD H87 10.3 41.3 36 74.1 -136.8 800 280 139 1.5 0 1 595 VIGCO065 BM6 L02 -16.5 22.4 20 0.0 149.0 -800 90 149 0.0 0 2 596 VIGCO066 SN4 L02 26.9 9.6 54 140.9 -51.3 0 340 150 0.0 1 0 597 VIGCO067 RAL L02 17.5 25.8 92 230.2 -83.7 0 340 245 0.0 0 0 598 VIGCO068 CCB H81 63.8 14.4 55 0.0 135.0 0 90 135 0.0 0 0														
594 VIGC0064 PM0 HB7 10.3 41.3 36 24.1 -136.8 800 280 139 1.5 0 1 595 VIGC0065 HB6 L02 -16.5 22.4 20 0.0 149.0 -800 90 149 0.0 0 2 596 VIGC0066 SNA L02 26.9 9.6 14 140.9 -51.3 0 340 150 0.0 1 0 597 VIGC0067 RAL L02 17.5 25.8 92 230.2 -83.7 0 340 245 0.0 0 0 598 VIGC0068 CCB HR1 63.8 14.4 55 0.0 135.0 0 90 135 0.0 0 0												_		
595 VIGC0065 HB6 L02 -16.5 22.4 20 0.0 149.0 -800 90 149 0.0 0 0 596 VIGC0066 SN4 L02 26.9 9.6 1.4 140.9 -51.3 0 340 150 0.0 1 0 597 VIGC0067 RAL L02 17.5 25.8 92 230.2 -83.7 0 340 245 0.0 0 598 VIGC0068 CCB HR1 63.8 14.4 55 0.0 135.0 0 90 135 0.0 0										-				
596 VIGCU066 SN4 LU2 26.9 9.6 14 140.9 -51.3 0 340 150 0.0 1 0 597 VIGC0067 RAL LO2 17.5 25.8 92 230.2 -83.7 0 340 245 0.0 0 0 598 VIGC0068 CCB HR1 63.8 14.4 55 0.0 135.0 0 90 135 0.0 0 0														
597 VIGCO067 RAL LO2 17.5 25.8 92 230.2 -83.7 0 340 245 3.0 0 0 598 VIGCO068 CCB HR1 63.8 14.4 55 3.0 135.0 0 90 135 0.0 0 0														
598 VIGCO068 CCB HR1 63.8 14.4 55 0.0 135.0 0 90 135 0.0 0 0														
599 VIGCO069 SMD CCR 18.2 15.8 76 33.8 192.0 0 80 195 -U.5 J O					18.2	15.8	76	33.8	192.0	ő	80			
600 VISCOOTI SZP APV 24.1 27.9 94 66.6 183.2 0 70 195 0.0 0 0														

TABLE 4-1 (Continued)

ATRICHAFT SEAN DESCRIPT NO. CODE	AIR	PUFT ARR	AIRLRAFT N MI N -X-	MI F	NULT 00-1 -1-	AIRCHA KNOTS	KNITS	FT/MN		SPO	TURN C C RATE 0 0
1734567890123				12 14 5	6799	3123456	7843123	4567890	1234	567890)1234567890
6)1 VIGCUD72	× 31	L 66	50.7	3.4	23	16.9	-194.2	0	275	195	J.U 0 J
602 V16C0073		L12	71.0	12.0	73	-83.6	-94.6	-600	220	130	3.0 0 2
533 VIGCO074		115	14.8	21.0	78	-15.2		O	95	175	J.J 1 J
604 VIGCUOTS				-10.3	- 77	120.2		0	45	170	ე. ე ე ე
505 VIGCOUTS			24.1	-4.6	52	9.0		0	40	550	0.3 0 0
536 VIGCOO77 637 VIGCOO78			-0.6	38.2	64	107.2		O	320	140	ე. ე ე ე
608 VISCOOR			-11.0 12.4	37.9	94	-147.2	85.0	2	150	170	0.000
579 VISCOUST			26.9	22.7 36.9		-23.4 -116.6		0	100	135	0.0 0 0
610 A10C0083	-		63.1	4.1	, , ; ;	148.7		ი 1500	135 345	165	0.000
511 VIGC0034			-16.5	16.5	51	61.5		1 700	70	180	0.)))
215 ALCO 146	- AL	WHP	2.7	12.0	43		-160.2	ő	300	185	0.000
513 VIGC0168	HUK	XO L	6.2	36.5	40	172.3		-1500	30		-3.3 3 2
514 /1300090	X44	X01	35.1	36.5	67		-155.0	ő	250	165	0.0 0 0
515 VIUC 3091	x 4 3	X42	35.1	25.5	91	-138.5	ชา. 0	j	150	160	J.J 1 D
516 V150092			-41.0	22.4	50	20.6	117.1	-1000	80	119	0.0 0 2
517 VISCOU93		SZP	-17.2	43.7	62		-129.9	J	240	150	J.J I J
518 VI3C0094			27.5	22.4	46		-126.8	U	290	135	0.00
519 VISCOU97			2.4	57.2	50		-176.2	1000	280	179	0.001
620 VIGC0098			53. L	9.6		-137.8	-24.3	0	190	140	0.010
621 V16C0101 622 V16C0104			25.3 52.4	19.3	71	0.0	155.0	0	90	155	0.000
623 VIGCUIDS			12.7	28.2	76	-137.2 130.2	89.9	U	140	140	0.00
674 VI3C0136			9.3	14.8	52		109.2	0	40	170	3.3 0 0
625 VIGCO107		31	41.7	2.4	57	59.8	164.4	0	310 70	150 175	0.010
625 VIGCOLDA			22.4	-1.7		-162.6	162.6	õ	135	230	0.0 1 3
627 VIGCO104			55.8	17.2	51	112.4	112.4	400	45	159	0.000
628 V1500001	RAL	LUB	6.4	-6.2	47	-129.4		1000	220	169	0.001
658 A1000003	A C T	HB 1	57.9	2.0	95	93.2	111.0	o	50	145	0.0 1 3
630 VISJ0004			60.0	18.6	105	-137.2	-89.9	0	220	140	0.00
631 VIGE0002		-	-13.7	65.5	68	144.7	-52.6	-1500	340	154	0.0 0 0
632 VIGF0003	-		42.3	1 • 3			-151.5	0	240	175	0.010
633 VIGF3004			34.4	40.3		-116.6	116.6	0	135	165	0.0 0 0
634 10GA0301 635 10GA0002			-3.1		101	-80.3	95.7	O	130	125	0.010
536 F1680003			-42.4 17.9	25.5	49 69	-68.8	98.2	0	125	120	0.010
637 TUGBUOU6			-37.9	21.3	59 59	-19.3	108.0	J	110	115	0.010
63P 10680007			43.1	8.6	50	-64.9	112.5	0	265 120	135	0.010
539 111580001				14.8	72		-142.4	a	316	130 235	0.010
543 105E0302			31.0	8.6	71		-139.7	ő	326	250	0.0 1 0
641 INGEOUD3	свн	HB 2	10.6	18.6		-246.2	43.4	ő	170	250	0.0 1 3
642 INSEU004	HB7	HB2	37.9	27.5		-153.6	175.5	õ	133	240	0.010
643 106F0005		_	57.6	10.3	99	111.8	-165.8	ō	304	200	0.0 1 3
644 [DGF090]				11.0		-33.9	383.5	0	95	390	0.010
645 13670002				24.1			-407.8	0	295	450	0.010
645 [UGF0003					119	-95.6	414.1	0	103	425	0.0 1 2
547 VOGE JOOL			-20.6	7.9		-135.1	216.2	0	122	255	0.3 1 3
649 VDGE0003						-102.5	102.5	0	135	145	0.010
450 VDGE0005			53.1 18.6	7.9		-126.9	88.9	0	145	155	0.0 1 0
320 F1331 U 303	.,91	nru	40.0	34.4	90	7.1	-164.8	0	272	165	0.313

TABLE 4-1 (Continued)

*****	A 1 11 5 6 A 6 T	905111	M A C G A		117		SRNO TURN C.C.
AIRCHAFT SEUN DESCRIPT AIRPORT		MI FT-0	JN ATRCRAI 30 KNOTS		FT/MN	BRNC	SPO PATE D U
NO. CUDE DEP ARR		-Y}		- X			KTS 00/50 1 2
123456749012345678901							
651 ILGADODE COM COM	15.1	-15.1 4	.7 0.0	HJ.0	O	90	97 -1.7)
652 ILGADJO4 CCB CCA	33.1	4.8	77 -95.7	-90.3	O	220	125 0.0 1)
653 FLGADJUS APV APV	58.6	30.3	33 -140-4	-65.5	O	205	155 0.3 1 3
654 1LGADDO6 L66 L66	41.7		30 -28.2	105.2	-600	135	109 0.0 1 2
655 ILGAOJOB E12 L12			31 122.8	36.0	U	35	150 0.) 1 3
656 [LGROOO] LG9 LG9				-128.0	O	560	130 -1.5 1 0
657 IL383002 LGB LuB			9 -142.1	25.1	0	170	145 0.3 1 1
658 ILG80034 LG9 LG8		-	9 -93.6	42.7	0	155	100 0.0 10
659 [L380J03 L38 L38			2 23.0	85.9	- 700	75 275	89 0.012
660 [L380005 L38 L63			35 3.7	-94.6 -154.0	- 1000	270	100 0.0 L J
661 11330006 LGB LGB).0 1 -134.8	7.3	0.001	177	140 3.0 1 3
- 662 ILGBOOLL SNA SNA - 663 ILGBOOLZ SNA SNA			38 -90.0	-54.0	ő	211	135 0.3 1 3
564 ILUBOOL3 SNA SNA			22 -60.1	-63.1	9	225	85 1.0 1 3
665 [LGB00] 344 344			4 17.3	~98.4	ő	290	100 0.010
665 ILGB1020 FUL FUL			23 -3.3	94.9	õ	92	95 0.0 1 0
667 [L380023 RAL RAL			5 -57.5	55.5	0	136	30 0.11
658 ILUBOJ24 L16 L16			6 -93.3	~ 35. 8)	201	100 0.0 1)
669 [LGC000] LG6 LG9			7 86.8	34.9	J	46	125 0.0 1 0
670 ILGCOUNA SNA SNA		-13.4 2	2 -16.9	-193.2	-400	265	194 0.0 1 2
571 TEGCODON HHP HHP	4 . B	-1.5	33 -114.9	96.4	0	140	150 0.010
672 FLGEODOZ POC POC	16.5	14.4 6	23.2	131.9	1000	80	134 -2.0 1 1
673 [LGE0:0:03 JXR UXR	-54.1	38.6	9 153.2	128.5	J	40	200 0.3 1 0
674 ILSEOUG4 ONT UNT			2 44.4	122-1	0	70	130 0.0 1 3
675 VLGANUOL L36 L36			24 -35.5	- 59.5	500	238	63 0.7 0 T
676 VLSAOUO5 L36 L36			22 -126.8	-54.1	v	235	14) -3.0 0 0
677 VLGAUUNG L36 L36			31 -103.4	-59.9	J	210	120 0.000
678 VLGADOLO APV APV			82.2	-47.5	C	330	95 0.0 0 0
679 VLGAUOLL APV APV			9 89.9	-107.2	0)	310 270	140 0.000 120 0.000
683 VLGADOL4 APV APV				-120.0	0	240	130 0.0 0 0
691 VLGADO16 APV APV 682 VLGADO18 APV			50 48.6	-35.9	j	340	105 0.0 0 0
683 VLGAUUTS APV APV		-2.0	3 -1.1	-63.9	500	269	54).) 3 1
684 VLGA0022 166 166			-67.0	43.5	0	147	80 -1.3 0 0
585 VLGA0025 L66 L66			2 148.8	18.2	Ű	7	150 0.0 0 0
686 VLGA0026 L12 L12			7 2.7	-79.9	Ü	272	80 0.3 3 3
687 VLGADO27 L12 L12			0.0	74.0	500	90	74 0.3 0 1
688 VLGA0028 L12 L12			9 67.9	2.3	0	2	65 -1.J J J
689 VLGAUJ29 L12 L12	68.7		71 27.3	-75.1	υ	291	80 0.000
690 VLGA3033 L12 L12			6 114.3	12.0	0	6	115 0.0 0 0
691 VLGA0734 L12 L12	69.5	22.4 8	125.5	12.4	0	30	145 3.3 3 0
692 VLGA0035 L12 L12	71.0	22.7 d	38 -27.0	127.1	J	102	130 0.000
693 VLGA0036 LL2 L12	66.4	25.5 1	'J -109.9	-1.9	0	181	110 3.300
694 VLGAOU40 L12 L12	65.8	12.4 7	9 53.9	-64.3	100	310	84 0.3 3 1
695 VLGAUU39 L12 L12			5 98 . 7	56.9	200	30	114 9.0 0 1
696 VLGAJU41 L12 L12			5 -8.7	-99.6	9	265	100 1.000
697 VLGA0042 L12 L12			3 147.7	-26.0	0	350	150 0.3 3 3
698 VLGA0043 X17 X17			114.9	96.4	J	40	150 -1.5 0 0
699 VLGAU045 X17 X17		•	3 79.9	2.7	0	2	80 -2.0 0 0
700 VLGA0048 XI7 XI7	67.6	-3.4 3	15 143.5	-27.1	υ	352	145 0.000

Almona I	ALKERA	FT -80511	1:75	ALKI, RAI	ET ZELDO	117			TURN 6 C
SEAN OFSCRIPT ALREART		41 61		KiNUTS		FI/MN	BRNG		HATE J)
AJ. COM TRADATE			- 7 -	- Y -	- x -	-1-	DEGS	K15 (06/55 1 2
123458799712345678901	2345678	90123450				567890	12345	667890	11234567390
							- -		
101 VI 1350 K17 X17	71.4	-22.0	36	H6. U	49.9	า	30	100	0.000
- 752 NE , 3053 KEE KEE - 733 VESADOSK SER SER	63.4	-15.k		-140.0	0.0	0	130	140	0.)))
- 733 VI JAJOSA SER SER - 704 - 1 JAJOS6 SER SER	0.3 ~4.a	22.5		~124.7	-71.9	500	510	144	-3.5 J l
105 VLS40057 SER SER	-H.9	21.3 22.0	34	-103.9	63.3 -103.4	0	150	120	3.303
736 VI 140 154 SER SER	-1.1	10.6	35	10.2 1.8	43.6	ე ე	230 85	105	0.7 0 0
171 VI 00159 SER SER	-7.5	24.6		~111.0	-53.2		220	145	0.0 0 0
7 18 VE SAVING SER SEE	15.8	29.3	60		-1,4.6	ó	566	125	0.00
739 46 3AU 165 KIR FIP	52.4	-1.3	37	- 79. 4	29.0	ž	160	45	0.000
ALD ALLANCE HIM HIM	61.4	2.1	44	103.3	37.6	ń	20		-2.3 3 3
TIL VEGALUS9 SIR HIR	47.9	-2.0	15	-94.6	-46.4	4)	205	110	0.000
11: 41 \$1070 -14 MIN	57.3	-14. H	36	-98,9	0H, 9	0	135	140	0.0))
713 VE AUDIZ PIR RIF	51.0	11.3	42	-99 . B	75.2	Ü	143	125	J.U J J
Tib Office Carry of b	67.9	3.1	57	145.0	-53,0	U	340	しりち	1.000
- 1(5 VEGADD15 RIK KIP	54.9	6.8	36	- 54 . 4	-53.5	O	222	в0	0.000
THE STEER STEERS IN STREET	5.8	28.6	49	-43.1	119.7	0	125	145	0.00
717 MtSa0077 542 AMP).6	20.3	22	110.3	92.5	600	40	144	-3.0) 1
10x 10x 25(4A21V 83)	8.6	4).3	4.7	92.0	-9A.7	0	313	135	ل ل ل ل ن
714 VI #3385 YOL KOL 175 VI #43355 YOL KUL	-10.3	72.7	40	-29.0	79.8	0)	110	8.5	3.3 0 3
- 179 VL (433-6 731 40) - 771 VL (433-4) - 11 131	H - 6	55.1		-112.8	15.8	- 800	172	114	0.00
772 1 43 15 tol X31	-4.4	52.7	+ 3	56.9	127.8	0	56	140	0.000
773 VI 2734 X31 X31	-1/47 -15,8	23.2 20.6	43	27.8 122.8	117.7 86.0	.3	79	120	3.) 3 3
124 41 . 1 . 12 . 7 . 13	~i.0	5).0	44	101.4	-21.1	0	35 345	150	0.0 3 3
775 VL	5.1	22.4	40	17.3	98 .4	j.	80	1 J5 1 JJ).))) -3.) ())
115 41 47 105 KM KM	11.)	55.1	42	63.3	135.9	0	65	150	0.000
117 V. 103116 86" X42	50.2	-18.6	23	-85.3	41.6	0	154	95	0.000
1. 3 VI. 313 17 7 13 842	57.2	-14.9	45	59.1	126.8	ő	65	140	3. 3 3 3
- 120 14 14 10 45 8 17 X42	51.6	-17.9	34		-141.0	- 400	253	149	0.0 0 2
- 737 Vr. 10 13 3, 742 Mag.	60.7	-31.3	35	107.2	49.9	J	40	140	0.000
111 VALUE OF SHEET X42	44.5	-23.1	.22	-60.2	-66.0		235	135	0.000
1 1/1 1/1 W 35 1/17 1/67	44. H	-24,9	3 }	-118.7	43.1	J	145	145	0.000
The second of the second section of the sec	63.3	-23.8	28	101.6	115-9	9	49	155	-2.0 0 0
- 100 Ac 1021 5 ACS ACS	61.4	-1.7	44	63.5	- 14.5	0	312	95	0.0) 0
- 1 - 46 8 25 578 57 <u>8</u>	- 51 - 1	24.4	54	-81.5	34.0	0	155		-3.J U O
136 V) A (11 378 57P	~31.)	24. H	37	38.0	31.5	0	65	40	0.000
- 11/ v. valle 5/9 5/0 - 119 v. 61:1-5/0 5/0	-37.7	31.0		-109-3	57.6	J	151	125	0.000
	-27.0	21.7	21		~1-10-0	3	270	100	0.00
- 7 - 6 - 64 5 - 11 16 - 670 - 670 - - 7 - 5 - 94 5 - 614 - 614 - 670 - 670 -	~54.5 ~15.5	25.5	41	~4.7	114-9	0	92	115	0.7 2 3
741 VE AUT 1 37 574	~13.7	3.2.4 3.7.2	32	117.8	~54.9		335	130	0.000
7+7 VI (6) 1122 X35 X42	6.3	41-7	3 Y 4 3	-117.3	54.7 -114.1	υ O	154	125	7.3 3 3
743 V. 1176 X11 XX	16.5	44.l	49	-97.7		-200	288	120	0.000
746 46-43126 837 837	10.5	56.2	45	3.4	-35,5 -94,4	200	230 2 7 2	104	3.000
7-5 V1 ,41122 Y3 Y3	- 1. 4	61.4	51	3.4	-90.0		270		-2.3 J J
746 VL 163131 X12 X37	12.4	56.9	33	-17.0	- 4 - 4 - 4	- 300	210	90	J.3 7 2
747 11. 49:35 638 633	34.3	-23.7	9	0.0	-49.0	250	270	89	0.001
7.5 40 .47(48 1.18 1.38	44.1	-24.4	4)	-25.3	-86.0	Ů	253	9)	3.3 3 3
742 VISSOLIS (38 F39)	44.4	-31.7	24	142-1	25.1	Ü	10	145	0.330
751 8138/142 139 439	44.5	-21.7	47	-92.0	-39.7	0	273	100	1.500

	ALM CHAFT			ALFORAF								TURY	Ć	C
SF QN	DESCRIPT	AFRI	としんて	N MI	N MI FT		KNUES	_	FT/MN		-	HATE	O	0
W.)_	CODE		AHH	- X -	- Y -		~ Y -	- u -)G/\$C		
1234	5678901234	+567	4 40 L			107	1123456	78901234	•55 / 591	312345	667890	012365	157	493
								• • • • • • •					·	
	VEGAU150			57.2	4.6	1.4	- 6 • 6	-11.4	400	263	71	J.)		
		59.1	58.1	58.3	7.2	25	-41.4	82.2	0	150	45	7.0	0	0
		SAT	SHT	76.2	3.4	44	4.0	114.9	0	88	115	0.0		J
754			281	64.4	5.7	37	134.2	44.6	0	25	115	-2.3		')
	VL GAU 158	SBT	SBT	63.1	7.2	3.3	41 - t	- 59. 7	- 430	295	94	-3.)	.)	2
	VI 340159	SBT	SET	57.2	4.4	49	41.1	118.7	3	55	145	0.0)
	VL340160		SHT	62.0	4.1	37	113.5	9.9	- 500	5	114	0.3	J	3
	AF PWO 191	SAT	SUT	70.)	2.0	54	99.0	-13.9	J	352	100	0.3	3	J
	VLGAU164		SHI	53.4	4.8	41	-96.4	-62.6	J	213	115	0.0		O.
	VL 3A0 165			54.H	10.3	2.7	-13.2	-57.4	-500	257	59	0.))	?
	VL540169	_		65.8	-0.3	35	129.9	74.9	0	30	150	0.0)
	VLGA0173	_		73.4	3.0	44	0.0	-95.0	3	270	95	0.0		J
		x25		69.3	5.1	49	57.5	55.5	. · ·	44	8-3)	J
	VESAULTZ			13.4	10.6	10	-48.8	-91.4	- 250	242	1)4	0.5)
	VLGA 3173			67.9	12.4	58	109.4	95.1	0	41	1 • 5	0.0	J)
	VLGA0175		K25	54.1	7.5	47	95.4	95.4	0	45	i 35	0.0		0
767				25.8	47.6	42	38.5	143.9	-500	75	149			J
	-	x 1 5		32.0	48.2	42	-47.4	82.2	0	120	95	0.0)
	AFCW0180			31.0	50.3	52	45.0	77.9	J	60	90		D.	0
	VLG40184			63.1	- 5.5	40	78.0	70.2	J	42	1 05	0.0)
	VLS40186	×31	X31	53.4	~10.6	22	-53.4	-65.0	0	231	85	0.0	Û	J
772			X31	61.4	-11.0	26	68.7	-6.0	-100	355	69		•)	2
	VEGADISS		-	66.5	-6.8		-106.7	-26.6	0	194	11)	3.0	-	O.
	VLSA0192		-	56.9	~29.3	23	-78.2	-16.6	c	192	ыÚ	J.J)
	VLGA0194			58.6	-20.6	26	51.4	-61.2	U	310	80	3.3	0	J
	VLGA3197			56.5	27.2	47		-114.9	0	310	150	0.0		Э
777			XIB	57.9	21.9	42	118.1	-20.8	3	350	153	0.0	O	ú
	VLGA0200		X I B	54.1	25.5	34	-60.5	-53.7	300	550	79	3.3	J	ı
779	VLGAJ 2U6	X 4 3	X 4 3	16.5	46.9	33	44.4	-77.0	200	300	39	-2.0		ī
780	VLGA0207	X 4 3	X43	13.7	48.2	48	0.0	-110.0	o	270	110	0.1	Э)
781			X43	17.2	50.3	46		~103.4	0	280	105	3.0	J)
782	VLGA0712	X43	X 4 3	20.6	51.7		-100.0	3.0	O	180	100	2.0		0
793	VEGA0213	X43	X43	23.4	49.3	57	-81.3	-81.3	0	225	115	0.0	ა	O.
784	VLGA9216	X43	X43	15.1	46.5	45	-25.0	-141.8	107	260	144	3.3	J	J
785	VLGA0217	X43	X 4 3	24.1	53.l	47	0.0	-110.0	J	270	110	0.0	0	0
786	VLGR0J05	LUB	LGB	3.4	~24.1	24	87.6	H7.6	0	45	124	0.0	0	0
787	VLGB0006	VNY	VNY	-2.4	15.8	15	-54.3	59.3	600	135	84	-4.0	0	i.
	VLS80009			-5.8	17.2		-129.5	-11-3	0	185	130	0.0	J)
789	VLGBOOLL	AMA	VNY	-7.9	35.l	41	103.4	86.7	0	40	135	-1.0	Э	J
790	VL383013	ANA	VNY	-16.5	33.4	51	-137.8	24.3	0	170	140	0.0	Э	Э
791	VL 380015	ANA	ANA	-4.1	20.0	27	120.8	-71.2	0	331	145	0.0	O	J
792	VL-ROOL7	AMA	VNY	-19.3	15.1	30	~5.Q	144.9	0	92	145	0.0	Э)
	AF283050	SNA	SYA	36.2	-25.5	42	0.0	150.0	0	90	150	0.0		0
794	AFCBP051	TOA	TO A	4 • L	-7.5	2	0.0	-59.0	500	270	59	~3.0	0	1
	AFC80055	AUT	TUA	4.4	- 1.9	5	~53.2	31.2	0	145	65	0.0	0	3
796	VLG80024	TOA	TGA	3.4	-11.7	30	-11.8	84.1	0	98	85	0.0		0
797	VLUB0027	TOA	T()A	11.3	-15.1	2.5	51.0	145.6	0	70	155	0.0	J	J
798	VEGR0030	TUA	TOA	13.4	- 3. 4	40	15.8	57.1	0	37	95	0.0	0	0
		TO 4	TUA	15.1	-9.6	3.1	54.9	-95.2	0	300	110	0.0		0
800	VLGB0032	TUA	TOA	-3.7	-20.6	26	-91.9	-77.1	U	220	120	0.0	J)

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- 311 Vijua 1356 mile 1934 - 312 (143)57 - 31 Mark	- 1.	12		1117 3	76.		1	124	3.7.7.3
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্ৰান্ত মনু সভাপৰ ভূৰণ নু ৰ ণ	25.5	13.7	44	- 34 5	12-6	J	161	100	3.3 0 0
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Contract to the second of the second	5,1	-12.4	30	- 7B.J	10.2	0	139	105	0.00
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and the versional time time. The	4) ~)	- 1,4	∢,⁵		-118.1	ú	260	120	7-7 2 3
The state of the s	11.0	- 4-2	45	-122-8	80.0	()	145	150	0.00
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A CONTRACTOR OF A CONTRACTOR O	a., 3	- 3. į	7	-2.6	14,0	?	92	75	0.0 0 0
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AND PROFILE TON COM	19.3	12.1	35	61.0	137.0	Ó	66	150	0.000
13 VI 20 112 1 1 - 4 CPM	11.3	-5-8	3.3	103.6		-1000	18	109	0.0 0 2

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952 VEJBU123 SPM CPM	16.2	-4. H	37	60.1	-67.1	Ú	315	85	0.)))
953 VLGPU124 CPM CPM	13.1	-1).0	3.7	21.5	151.4	U	42	155	J.3 J 3
454 VE 125 CPM CPM	23.4	-17.5	40	129.4	-75.0	0	33.)	150).)) o
855 VLSBU129 CPM CPM	32.0	-6.5	14	- 3.1	34.9	Ų	45	90	0.000
ASK AFPRIST DXM DXE	- 57 • 3	21.3	25	24.3	137.B	()	40	140	0.00
957 AF083F35 1X6 GX5	- 45.3	13.7	3.0	10.4	119.5	U	85	129	0.000
358 VL 160133 UXR DXK	-37.9	28.6	33	-69.2	43.0	.)	150	80	3.3 0 0
359 VLSP0139 NXC 1XR	- 34-1	21.7	42	-85.6	32.6	- 807	136	119	ا، 1 (ا
BAD VLGBULAZ UXP UXK	-45.5	21.0	34	-	-118.2	U	308	150	J. J. J.
861 VESBULAS DXR CXR	- 3H • 9	18.6	3.2	0.)	140.0	0	90)	140	2.3 1 3
862 VESBUIA6 UXE EXP	-34-1	9.6	37	- 75 .0	39.4	ز	152	35	J. 9) 3
463 VLGHOL48 OXR DXF	-38.6	16.2	5	0.0	100.0	7	90	100	3.3 0 3
BA4 VEGBOIA9 DXH UXF	-21.3	14.8	23	-62.9	77.7	0	129	100	7.0 3 3
HOS VEGROISO TER TER	-36.9	22.0	47	39.9	75.0	Ú	62	85	ن د د.ن
966 VESBUISS RAL RAL	47.2	1.0		-134.9	-4.1)	132	135	0.0 .0
867 VEGBUIST HAL HAL	47.6	- 7.2	44	-76.5	23.3	J	163	ცე	3.3) 1
969 VLGBOIGO RAL PAL	49.3	-2.0	22	131.5	47.H	0	50	140	3.) 3 3
369 VLG50166 L16 L16	44.6	-5.1	3.5	0.0	-90.0	.)	270	40	1. 1 9 3
370 VLG80168 E16 E16	46.9	-5.5	45	-56.6	-69.9	0	231	90	3.0 3 0
971 VL380171 L16 L16	45.5	-6.2	23	-57.8	- 74 - 0	150	232 269	-94 4 -3-1	0.000
872 VL630176 L16 L16	27.3	-5.5	33	-1.3	-79.9	9	110	8J 155).0 0 0).0 0 0
873 VEGB3179 E16 E16	20.3	-11.0	37	-152.6	20.9	0			
374 VLGBUIHU L16 L16	21.7	-4.9	24	-79.1	-49.H	-100	212	94 95	3.0 0 1
975 VLUBO195 E16 E16	19.6	-17.5	29	73.6	42.4	ú	27	43	0.0 0 0
376 VLGB0186 L16 L16	18.7	-18.4	46	1.08	40.8	J J	351	145	0.3 3 3
377 VL330187 L16 L16	22.7	-17.9	32	143.2	-22.6	3	170	130	0.000
878 VESPOIRS LIS LIG	23.B	-21.0	36 43	-128.U 80.4	22.5 75.0	Ĵ	43	110	3.0 3 0
879 VLGBU192 L16 L16	22.4	-9.6				υ	57	140	1.000
3-3 VL633193 t16 t16	25.1	-7.9	22 27	76.2 43.2	117.4	S	12	140	0.0 0 0
3°1 VLSH0194 L16 L16	28.2	-1.9	37	-19.0	98.1	0	131	100	0.0 0 0
382 VEGROZOO E16 E16	46.5	-8.6	20	13.2	83.3	100	63	84	-2.0 0 0
883 VLG80202 L16 L16	50.3 51.7	-9.3 -8.6	34	135.2	36.2	0	15	140	0.000
- 394 VL380203 L16 L16 - 985 VL3P0205 L16 L16	53.1	~6.2	47	107.9	20.9	ű	11	110	-2.0 0 0
386 VLGBUZUS LIB LIB	3.4	51.7	49		-128.0	9	280	130	0.000
997 VLSB0210 #JF WJF	0.0	51.7	46		-140.9	Ĵ	290	150	5.000
338 VLGB0213 WJF WJF	3.4	40.2	43	-61.2	51.4	0	140	80	3.0 0 0
889 VLG80214 WJF WJF	11.0	50.7	48	-7.4	34.6	ä	95	и 5	0.000
BID VEGBOZIS WAF WAF	6.5	49.3	5 4	52.4	-90.9	ń	300	105	0.000
891 VLG80216 WJF WJF	-2.0	55.1	46	-34.2	-93.9	ó	250	100	0.00
892 VLGBOZIB WJF WJF	9.t	47.6	44		-135.9	ő	295	150	J. U J J
893 VLGBOZIO WJF WJF	12.4	51.0		-112.7	41.0	Ü	160	120	3.3 0 3
874 VLGHUZZI WUF WUF	12.0	47.9	35	-39.4	-68.4	- 500	240	79	0.3 0 2
995 VLG80224 WJF WJF	~13.7	54.9	41	0.0	103.0	0	90	100	-2.0 0 0
896 VLGB0728 WJF WJF	-8.6	49.6	49		-110.0	0	210	110	0.000
897 VLGB0228 WJF WJF	1.)	56.5	22	-173.9	60.0	ñ	150	120	0.000
398 VEGRO231 WJF WJF	3.7	63.4	51	44.4	122.1	ő	70	130	0.0 0 0
399 VLG80234 PM1 PMD	15.1	39.6	39	-27.3	-75.1	9	250	80	0.010
900 VLG80236 LO2 LO2	-13.7	13.4	32	48.8	109.6	ó	66	120	J.0 0 7
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55 IN	DESCRIPT	114	P.OH.T		N MT FT		KNUTS			624.	500	4411 0 0
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				23456744	0123456	1890	1123456	78701234	567890	12345	6/390	1123456/4+1
951	V1 (0.0343	×1.7	X17	72.1	-13.1	23	52.3	-52.3	- 41))	315	14	9.002
352	VL-50345	1.1	SER	-6.9	32.7	40	50.3	80.5	:)	58	1 g &	J. (() ()
753	VE 380346	3 F H	SFR	-12.0	37.6	43	51.4	-49.5	1	300	115	0.0 1 7
354	VL 382347	SEH	SER	-17.4	17.9	31	-144.4	13.6	O.	175	1.50	9.3))
955	VI 310) 149	5+ E	314	-2.4	28.2	3.4	67.1	-67.1	U	315	95	(و زیدان
956	VL = 1351	366	1, 6 14	-13-7	30.5	36	-6.9	-91.7)	266	100	3.3 3 3
757	VL 180352	سنهر	3 F K	-19.3	33.8	41	-124.4	-2.1	O.	181	125	3.) 3)
253	VL580359	4 [K		53.4	1.7	14	-61.3	65.8	O.	133	90	0.0 0)
35 1	4L 181367	∞1 4		56.9	3.1	4.4	5.2	44.8	າ	87	100	0.20
96)	VL 280362	~ [2	-10	77.7	9.6	64	-60.1	~19.B	(4)	233	100	9-1 3 3
261	VL38336+	41 K		63.4	4 - 4	22	-86.1	-103.4	U	230	135	0.000
152	VL SPO SON	2:5	012	61.4	6 . P	28	-61.3	-125.8)	244	1%0	7.1 3 1
953	VL580367	-13	41 4	64.1	5.8	38	104.7	-3.6	0	358	195	0.00
754	VL 380368		WHP	1.3	18.9	12	-53.4	-64.3	750	230	44	4.3 3 1
965	VE 030369	MHP	MH D	-2.7	19.3	19	0.0	- 44.0	800	270	4 4	-1-1 0 1
965	VL562371	WHIP	mrt D	-11.3	7.5	21	-5.0	144.9	ΰ	92	145	ز بن ل د ن
967	YLG80372	m-1P	MHP	-2.7	13.4	35	86.7	75.4	J	4 i	115	0.00
	VLGP0373	я нР	чнр	-0.3	29.3	44	-44.1	-1 7.0	Ü	191	100	0 4 0 3
964	VL 040 376		HHP	-9.3	9.6	23	37.1	47.4	0	5.7	45	J. J J 3
370	VL 5 3 U 3 7 7	HHP	WHO	-16.9	11.0	4.2	-74.6	23.6	0	159	3.)	-3.3 0 0
471	YL 199378	AHP		-17.5	28.2	2.	-41.7	191.9	C	112	110	0.300
477	VL >~ 13H1	eres P	4140	-8.4	25.5	56		-127.1	Ö	282	i 3)	0.111
973	11.03384	arth	440	-9.3	23.8	48	-94.2	56.6	o)	149	110	J. 0 J J
	46.6.3136	x)1	301	-5.5	30.9	43	18.7	-88.0	e	2.82	40	1.9 3 3
975	VL540387	×J1	zu l	-10.3	38.2	ن ب	51.4	-61.2	Ö	310	8 0	1.000
975	VL 382389	x31	X-) 1	-8.9	31.0	3.1	44.9	111.2	0	68	120	J.J J J
977		570	522	-24.1	32.7	51	54.1	71.8	ñ	53	90	0.000
	V(UR0194	SZP	SZP	-19.3	44.1		-10/.2	39.9	.)	140	140	0.000
	VL380395	570	SZP	- 40 . 3	23.6	35	130.7	50.1	ó	21	140	-3.0 0 0
	VL340397		SZP	-24.4	30.3	51	-66.5	-98.6	-500	236	119	ن زن ز
981	VL 380 394	57.2	SZP	-3.9	36.5	42	43.7	-12.5	0	301	85	0.000
932	AF259384	329	57 P	-31.3	22.4	20	20.3	124.3	Ö	81	130	0.300
	VC389402	570	37.0	-30.3	14.1	29	- 74.8	58.4	Ü	142	95	1.5
934	VL JPD476		y 3 ?	-10.3	62.0	8.4	32.4	-37.2	0	290	45	1.)) 5
985	VI 580407	x 3 2	32	-13.7	49.2	63	21.7		Ö	280	125	0.000
	VESHU438			3.1	66.2	32	129.9	-75.U	ñ	330	150	0-0 0 0
	VLS80410	-		10.3	54.6	55	116.7	-94.6	3	320	155	0.000
943	YL 580 412		133	35.8	-21.5	ڼ	-13.7	-11.1	-500	250	79	-3.0) 2
	VI SP3418	581	26 T	50.3	18.2	4 8	112.5	-65.0	Ú	310	130	1.303
	VL333419	SAT	SBT	52.4	17.2	4)	45.8	-67.1	400	322		-3.7 0 0
991	VL383420	581	381	52.7	15.1	35	132-9	-47.6	300	343	139	0.000
	VL580421		x 2 5	53.4	23.4	44	95,4	15.4	0	45	135).)))
	VLG30926	¥25	_	39.6	25.1		-137.1	-58.2	700	233		-3.000
994	VL 680427			51.7	25.1	44	-80.4	75.0	j	137	110	0.000
995				27.9	46.9	43	16.4	17.2	200	78	79	0.3 3 3
996	VLGC9991			30.7	4.1	+6	130.0	J. 0	2 0,0	j	130	0.000
997	VEG. 3931			4.9	-11.0	5.5	150.0	174.3	υ	95	175	0.3))
998	VE-CU304	-	A.11.	- 3.4	14.9	12		-162.4	600	242		-3.)) i
	AF200008			-9.3	35.5	33	128.)	-6H.O	0	332	145	0.000
	AFRECHAUA			-23.4	27.5	41	3.3	125.0	ő	45	125	0.000
4000		• • •	• • •					• • • • • • • • • • • • • • • • • • • •	.,			

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in take sa arang birisharish				-121 3	44.8	-1200	142	154	1.0	î ź
1 1 1 1 4 4 4 9 114 1NA 51		-:,",3		10.5		- 1	35	140	0.)	J ()
top vertically the th		- 1.6	19.7	94 g H		1	12	145	0.0	<i>)</i>
1006 1 1001 100 T		-13-1	4 C.	107.6		ر.	40	155	Ú.,))
- 1996 - CHOUNT 14 15 - 10 1 20 CHOUNT 14 15		- 5 - 1	2 4	- 3.2. 8		800	200	139	-3.)	1.1
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I star day a state year		- } - (1 .		139.5	1	130	160		J
1 70 - 1335 4 20 - 1		. 1-1		~ 3.	1//.2	- 1.333 0	293	117	3.)	
	-	21.	3.5	114.11	1	0	71	1.80	0.0	
Control of the Control of the Control					-128.6	,	67 221	165		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11.1	63	198.9	-19.5	, ,	153	175		2 2
in the application of	31.7	1107	ĹS	رُم رَمَانِهِ	93.6	9	9.)	113))
13 - 41 - 1-1 2 17 -	37. 1	4.6) =(-139.7	j	313	150).J. [[(
C 46 4 2 34 3 2 6 26	. 3 1	1251		145.6	- 42 - 4		331	170	0.)	
10-10-10-10-10-10-10-10-10-10-10-10-10-1	31.4	1	3 3	19831	-71.2	ชวด	327	129	1949 . 149 .	
رفا و کیمور داده در د		7.5	15		-113.4	33.0	249	123	3	
At Company to Miller	3 H 5	i 5	40	-150.2	-42.4	Ĵ	213	185		, , , ,
1.14 July 1.18 Sec. 1.8		شيء ي	-1 1		-167.3	,	(55	170		
		17,4	1	-144.4	-5.0	j	182	145	0.0	
the second of the second		21.7	4, 1	-3.2	1 34 - 4	1)	91	155	J. 3	
то то стория в я		21.1	56	-64.5	-115-7	(2	239	135	j.,	
The state of the state of the state of		-12.7	4	13.7	41	.)	46		-3.)	
Section 18 Section 20		1.125	45	- 1. (1000	0	91	180	3.) J	
خان پر انجان کے والے کا مرکز در مرکز کا در کا ان ک		- L,	.)) ~)	11.4.4	- 800	40	164	-3.) 0	
	•	30.4		-137 _a e		j	223	180	0.10)
	•	5245	54	13674	11	0	41	180	0.10	J.
•	50.4	20.3	·2 3	24.5	19:01	40 U	7.9	154	-2-7)	j
TO STATE OF THE PARTY AND THE STATE OF THE S	45.1	3 1 - 1	· . 7	-5307	187.4	2	106	145	0.0 0	J
· · · · · · · · · · · · · · · · · · ·	61.	21:		102	-54.0	J	190	165	0.70	4)
2 81 (JA 146		36 4		154.4	4)	192	155	0.00	J
71 - 32 tto 11a		-19.6		147.5	21.1	O)	170	160	0.0	J
1 4 1 7 100 T 1 16 1 18	22.1	-20.3 -13.7		115.9	124-3	Ü	133		-2.50	J
ترون الإنسان الإنسان الانسان ا الإنسان الإنسان الانسان	3	= () ,	28 50	135.4)	314	195	3.3 J	3
The first wife wife	34.4	5) , 0	50	97 - 1	76.3	800	3.8	124	0.00	Э
ં માટે કે	-13.7	53.3	5, 2	-23.1 121.1	128.3	j.	3.9	130)-J J	.)
ं राज्यस्य भाग्ने अभाव	-16-	53.7		120.7	- 70-0	J	330	140	0.00	Э
- 160 3€ 192 €3 2	-17-7	19.0	16	79-0	32.3	J.	165	125	1.0 0	0
20 1 109 1 1 12 1 T	- 35.	17.	-	10923	0.0 5.13	ij	0	70	0.0	0
*** · · · · · · · · · · · · · · · · · ·	-1	31.2	31	-32.9	1-7-1	J J	50	173		J
10 15 Pt 10195 137 (37	21.	46.5		157 a T	-43.3)	130	190	0.00)
The second team and second	-11.3	26, 9		127.7	41	ن	143	165	3.00	
- 14 H 16 15 14 6 4 665	29.3	17-		- 32		Ų Q	260	163 185	0.00	
Carlo Harrist 38 Les Lon	13.3	14.4	65	1.1	179.9	ŏ	89	180	0.0 0	J O
CONTRACTOR SERVICE	- 4 - 2	33. "		1.03.3	- 2.1.3	j		135	3.0 3	
						•	2	. , ,		.,

TABLE 4-1

AIRCEAFT		et Pastilia						THEN C. C.
SEDA DESCRIBI VIRBURI		A 41 (1-1)						PATE D D
NO. TUDE DEP ARK		-Y/-		- X			K75 D	
123456747)12345678701	2345 67 89	9,123456787	1121456	1890173	5567870	117345): 8 9 0	11234557891
1051 VL 3 D D D 2 L 38 L 68	7.9	-17.6 51	64.1	1/8.5	9	10	190	1.000
1051 VESTITION VAY VNY	-6.5	11.3 37		145.7	0	1.31	170	J. J J J
1053 VESCOUS SNA SNA	51.7	-26.9 66		41.4	j.	ر ک		-3.)))
	- 23.4	20.6 65		-182-1	Ú	280	185	ار د د د
1055 91500007 396 396	31.)	33.0 91	-22.04		ı)	1)!	120	1.00
1056 VEGODOLL NA CAND	44.1		-126.3	- 73.9	-1000	212	49	0.012
1057 VE 0100016 KH GXR	-41.2	21.5 49		-113.0	200	*18	169	0.100
1958 VLG00017 JXK JXK	-38.9	19.1 21	-113.7	15).4	1000	127	137	0.0 0 1
1059 VLG000118 3X8 XK	1	30.9 51	152.1	24.5	0	i !	155	-3.0 3 3
1060 VIG00010 19T 19T	55.1	21.5 60	154.3	-1 +.4	0	353	160	0.100
1361 VL30212J PAL HAL	53.4	1.3 22	64.9	178.5	J	73	190	1.1 3 3
1362 VEGDO (21 - AL HAL	73.4	5.5 56	2.4	-169.9	.)	271	1/3).) O O
1963 765E0303 (N. CM)	42.3	4.4 13	-34.3	176.6	Ü	1.0i	190	0.0 1.0
1064 VLSF000 PM0 PM0	33.4	31.7 65	102.4	3).)	O	3.8	130	0.0 0 3
1365 VLDF JUDS EMT EMT	27.4	21.7 50		-179.0	300	270	179	0.000
1.355 VESTADIA FAL FOL	41.3	-14.4 35		-100.0	ن	330	200	0.0 0 0
-1057 v1440001 CH 970	3). 1	-4.6 33	- 68 - 8	93.2	()	125	150	0.00
- 1054 VERGEDUL 170 LAM	2).6	-14.4 21		-135.6	U	302	160	0.0 0
1369 71433331 416 8061	₹5, 4	331 55		-110.3	0	232	140	1.0 1 3
1070 VIMODODA (Dm. K14)	41.3	51.7 47		113.1	U	135	160	0.000
TOTE VIMODOS RUR CAT	13.5	16.5 53	12.5	174.5	0	86	190	3.3 0 3
1913 KI480001 AST XIA	17.1	7.5 110		34.5	.)	25	200	0.000
1073 VIMEUUDZ HIV FOR	40.0	21.7 119		-151.0	U	321	240	3.300
1074 AIMEDUOF -14 BM:	29-0	27.9 119		-115.7	0	320	180	3.3 0 0
1075 41MF0304 570 414	5 (. 6		-110.3		-1000	192	119	0.002
1075 VINE 1005 NZU SEO	56.2	-11.0 35		10 3.7	ົ່	4.7	15) 400	0.000
1077 VINF JOOS HRI VINY	- 37.4		-242.H -332.J	232.8 235.6	.)	135	400	1.0 0 0
- 1378 91MF3337 E3# HPF - 1379 11M33331 714 FFV	54 9 52.7	-37.5 119 -23.6 64		26.0)	170	150	3.3 3 3
- 1079 11M00001 714 FIV - 1080 11MF0001 FOR 580	32.7		-161.8	117.5	Ö	160	200	0.000
1090 [[MFU]05][17F 3F 7	48.2	23.0 95		15.6	U)	6	150	0.0 0 0
1382 11853992 973 FUR	31.	37.9 75		0.0	Ű	0	180	0.0 0 0
1093 (1960003 XIV 57J	39.1		-111.0	-42.6	400	231	119	0.001
1034 [[#8]004 \$90 573	56.1	-12.7 40		-124.0	Ĵ	263	125	0.0 0 0
1085 [IMF0005 HB1 X16	11.	45.2 45		-	0	229	243	3.3 3 3
17H MC3 66(C3M11 6861	23.4	62.0 35		-34.2	1000	351	219	3.3 3 1
1037 TIMED /07 497 SBD	24.4		-162.6	365.4	()	114	400	0.000
1088 91480001 240 241	23.6	31.4 45	16.6	18.2	0	18	80	2.0 0 0
1089 VEMCOUDE NT ONE	-3.1	14.1 44	2.4	-139.9	J	271	160	J. O O O
1340 VERDODAL INT SAT	35 - 4	16,9 70	-133.8	40.9	7	163	140	0.00
TORE VENTOUS PRO PRO	35.5	31.0 67	91.7	-112.6	0	334	145	J.O O J
1092 VEMEDION CON FIRM	44.4	55.5 62	31-4	42.7	i)	63	100	
THE SOCKIPLY FEEL	44.5	23.4 34		-110.5	ί,	322	180	0.000
1094 VENEUROUT FRE FOR	20.6	-31.U 175	J	14.7.0	J	90	140	0.0 0 0
1075 VEMENDOZ EGA EGA	27.5	-24. (12)	50H+3	215.8	0	40	4 () ()	J.J D O
TAM YEAR COCHAMIN SECT	37.5		-323 5	157-8	0	154	36.3	0-100
Figur ACHLOOME SOE BOD	- 12-0	33.1 ()		407.1	.)	122	4 H 7	0-0 0 0
1008 VEMFUODS ATA YTA	55-1	45.0 64			()	274	240	0.000
The Almestant Alm Alv	41.		-118.0	135.4)	1.41	[H]	1.5 0 0
1100 11400001 814 514	54.1	-15.5 65	- 33.0	115.3	Ó	106	120	7.333

TABLE 4~1 (Concluded)

ATTCHAFT	ATHEMATT PO	S111.15 A	ATROPALI	VELGUITY	GRAD TURN C	L
SEUN DESCRIPT ATPRURT	IM V IM N	Ft-9)	KNDTS I	KNUTS FT/MN	BRNG SPORATE F)
NG. CODE DEP ARR	- x 1	Y1-	- Y -	- x l -	DEUS KIS DU/SC L	1
1234557993123456739012	345679901234	45578931	23456789	901234567890	1234567890123450	1847
						
1101 ILMODODI FOW FOW	37.9 65.	•5 69	-56.2 -	110.4 -1200	243 124 0.) 0	2
UMA CHA TOCOBETE 2011	-3.4 53.	.l 32 -	157.6	123.1 0	142 230 0.3 3)
1133 [LMF003] X14 X14	51.7 44.	.8 45 -	149.0	J.U -150J	180 149 0.00	2
[1]4 [[MF0002 X14 X14	31.0 62.	.) 60 -	125.4	326.7 0	111 350 0.0 0	9
ILUS ILMFUODOS FOW FOW	18.6 66.	•5 120	297.2 -	261.6	318 400 0.0)	9

APPENDIX A

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